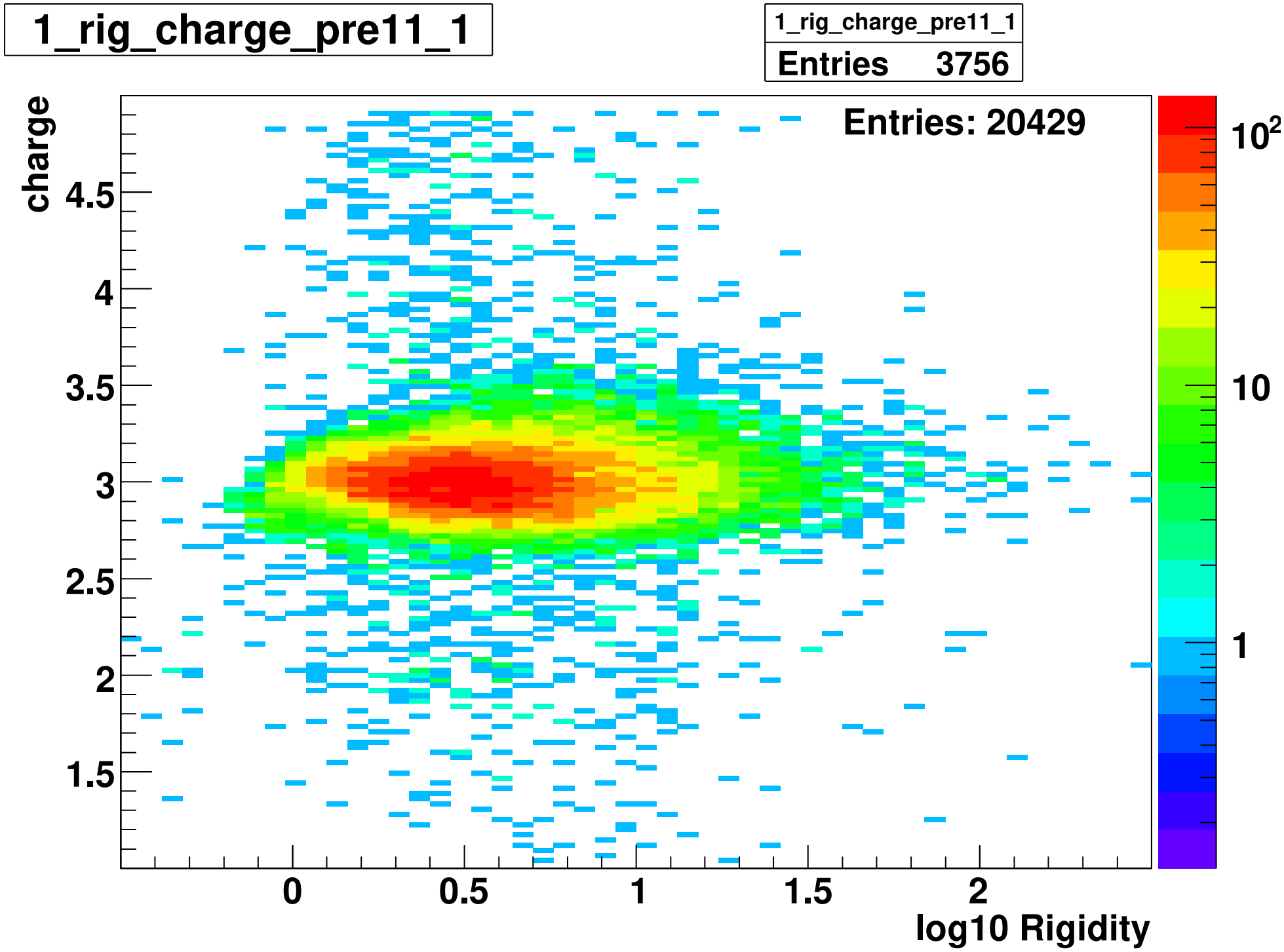
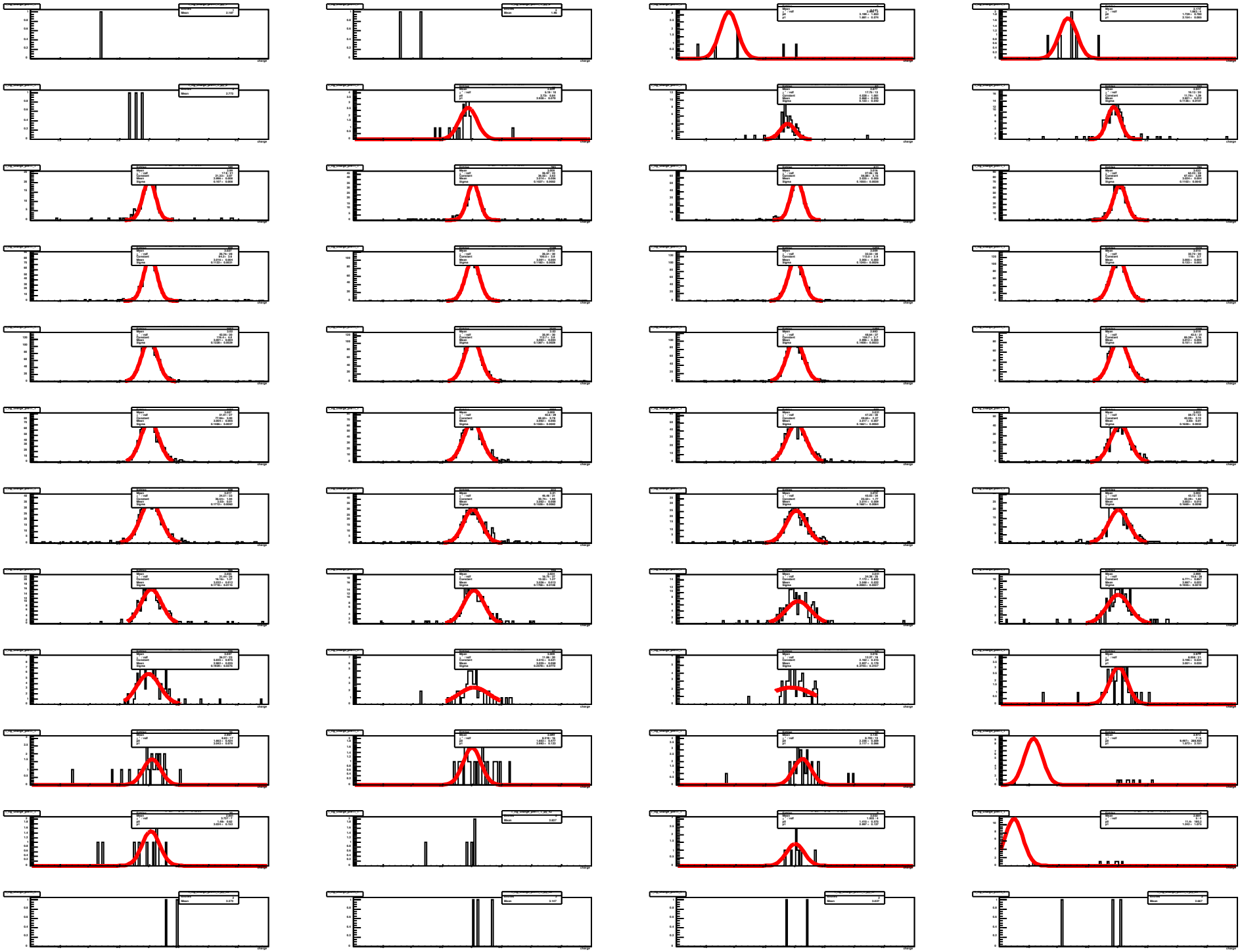
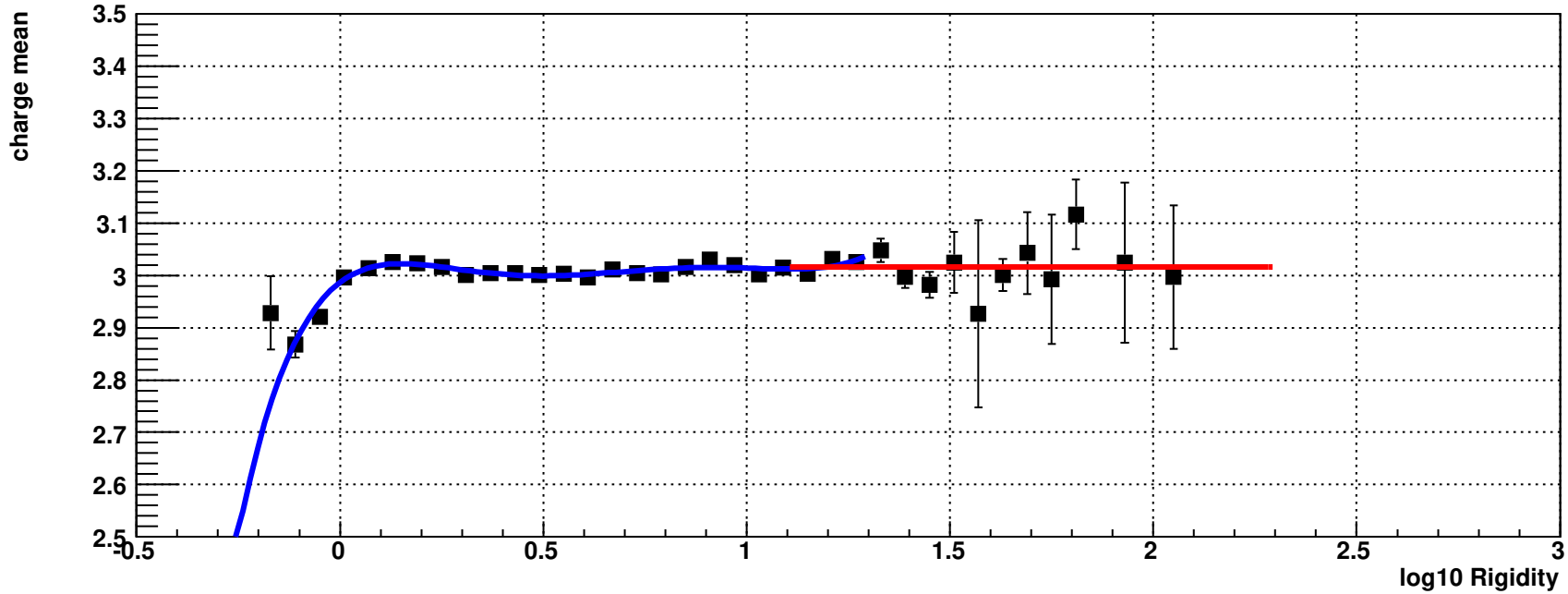
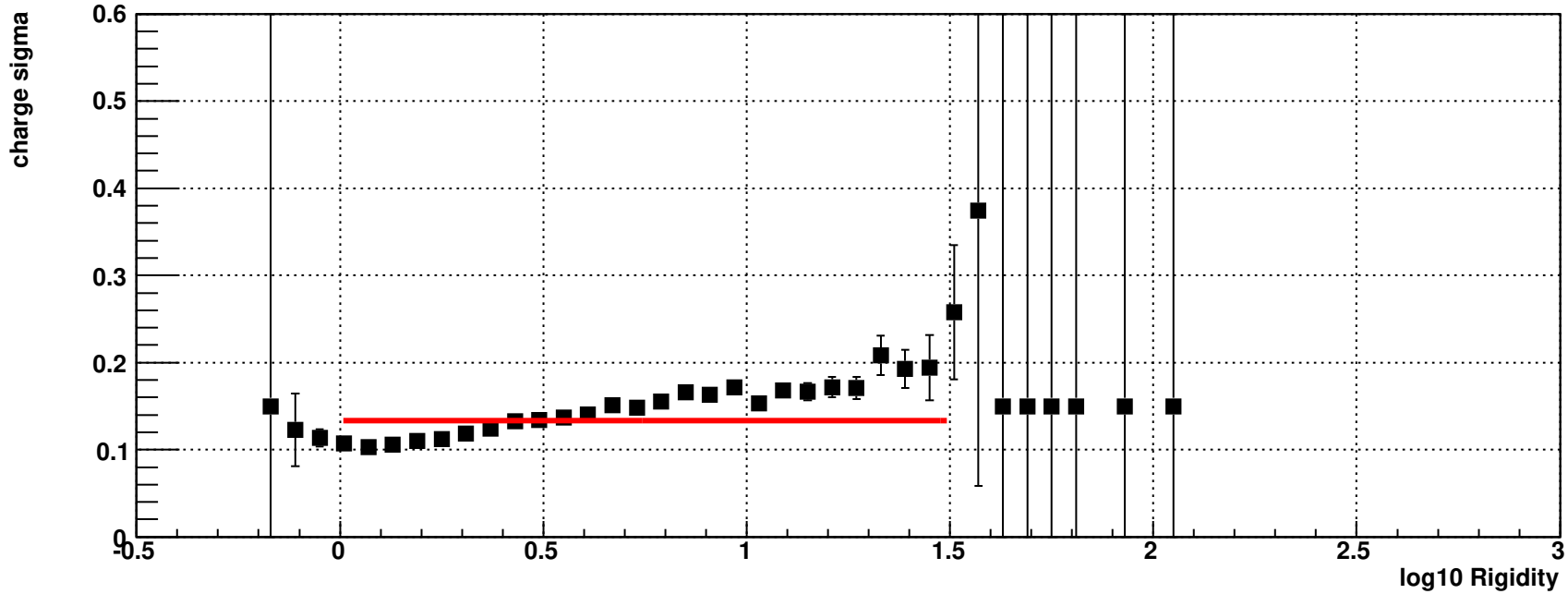

1_rig_charge_pre11_1
1_rig_charge_pre11_1
Entries 3756
Entries: 20429
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

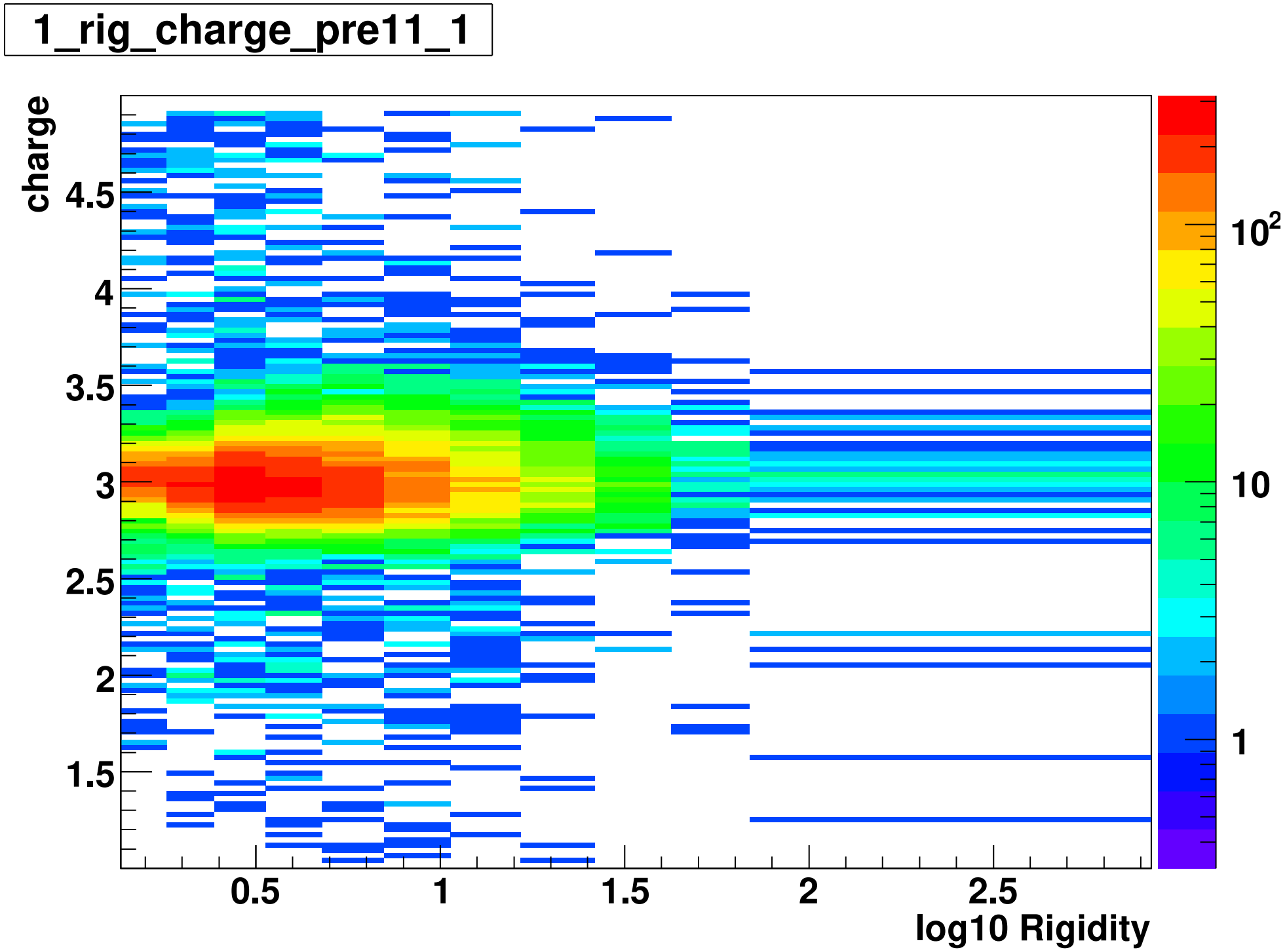


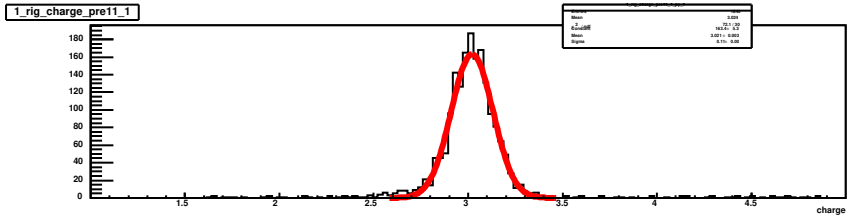
1_rig_charge_pre11_1 Lithium

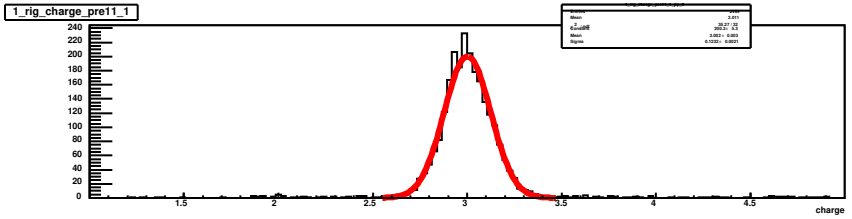


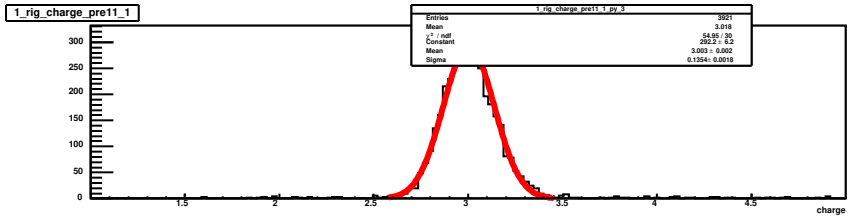
1_rig_charge_pre11_1 Lithium

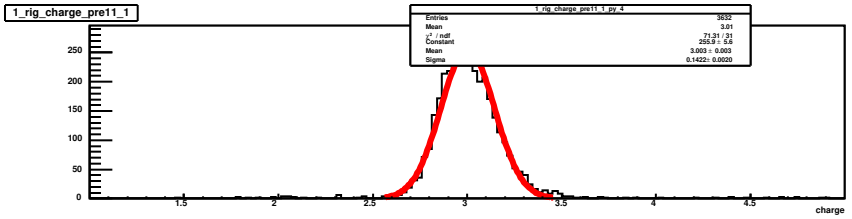


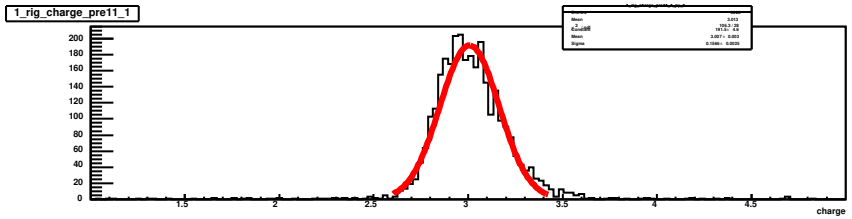

1_rig_charge_pre11_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

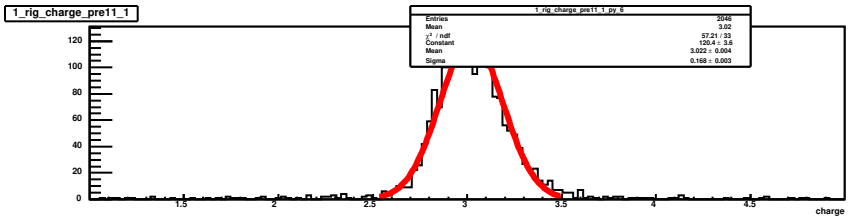

1_rig_charge_pre11_1
charge

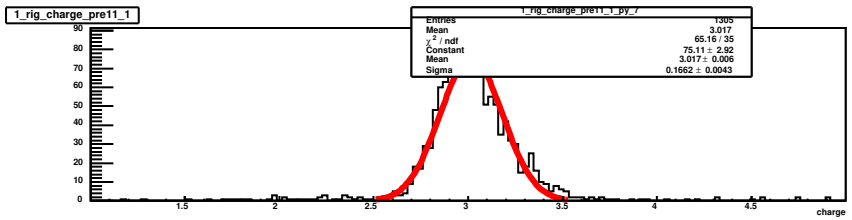

1_rig_charge_pre11_1
charge

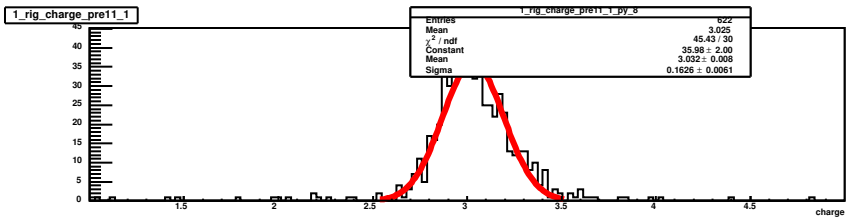

1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_3
Entries 3921
Mean 3.018
χ² / ndf 54.95 / 30
Constant 292.2 ± 6.2
Mean 3.003 ± 0.002
Sigma 0.1354 ± 0.0018
charge

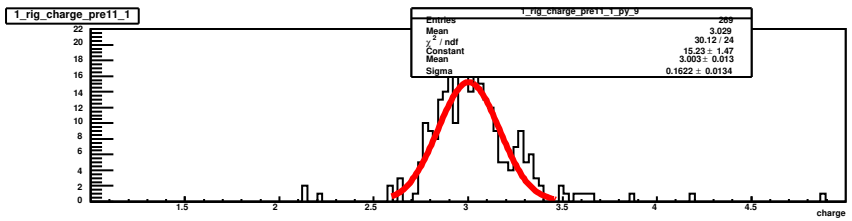

1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_4
Entries 3632
Mean 3.01
χ² / ndf 71.31 / 31
Constant 255.9 ± 5.6
Mean 3.009 ± 0.003
Sigma 0.1422 ± 0.0020
charge

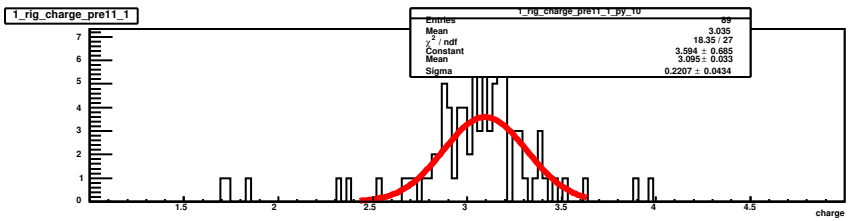

1_rig_charge_pre11_1
charge

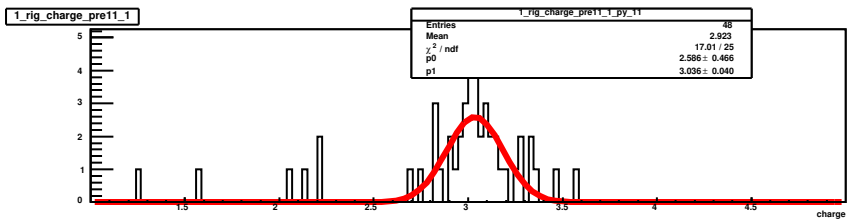

1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_6
Entries 2946
Mean 3.02
χ² / ndf 57.21 / 33
Constant 120.4 ± 3.6
Mean 3.022 ± 0.004
Sigma 0.168 ± 0.003
charge


1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_7
Entries 1305
Mean 3.017
χ² / ndf 65.16 / 35
Constant 75.11 ± 2.92
Mean 3.017 ± 0.006
Sigma 0.1662 ± 0.0043
charge

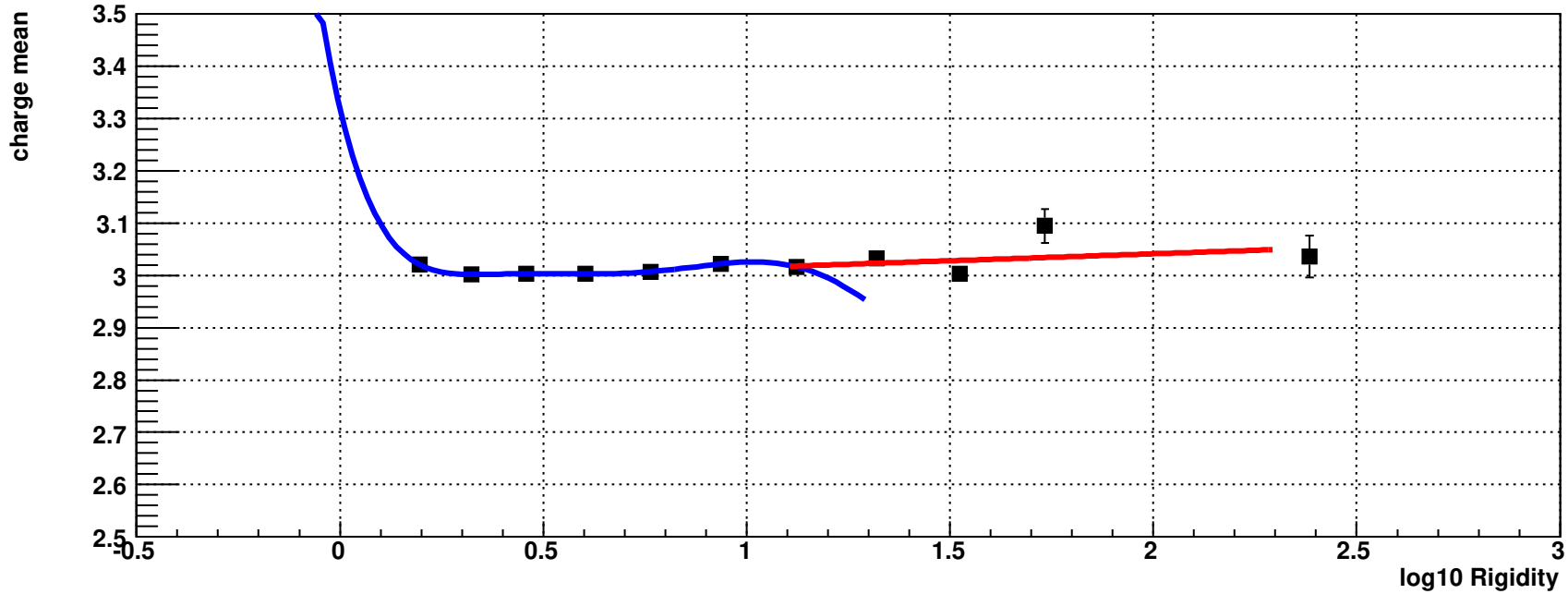

1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_8
Entries 822
Mean 3.025
χ² / ndf 45.43 / 30
Constant 35.98 ± 2.00
Mean 3.032 ± 0.008
Sigma 0.1626 ± 0.0061
charge


1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_9
Entries 269
Mean 3.029
χ² / ndf 30.12 / 24
Constant 15.23 ± 1.47
Mean 3.003 ± 0.013
Sigma 0.1622 ± 0.0134
charge

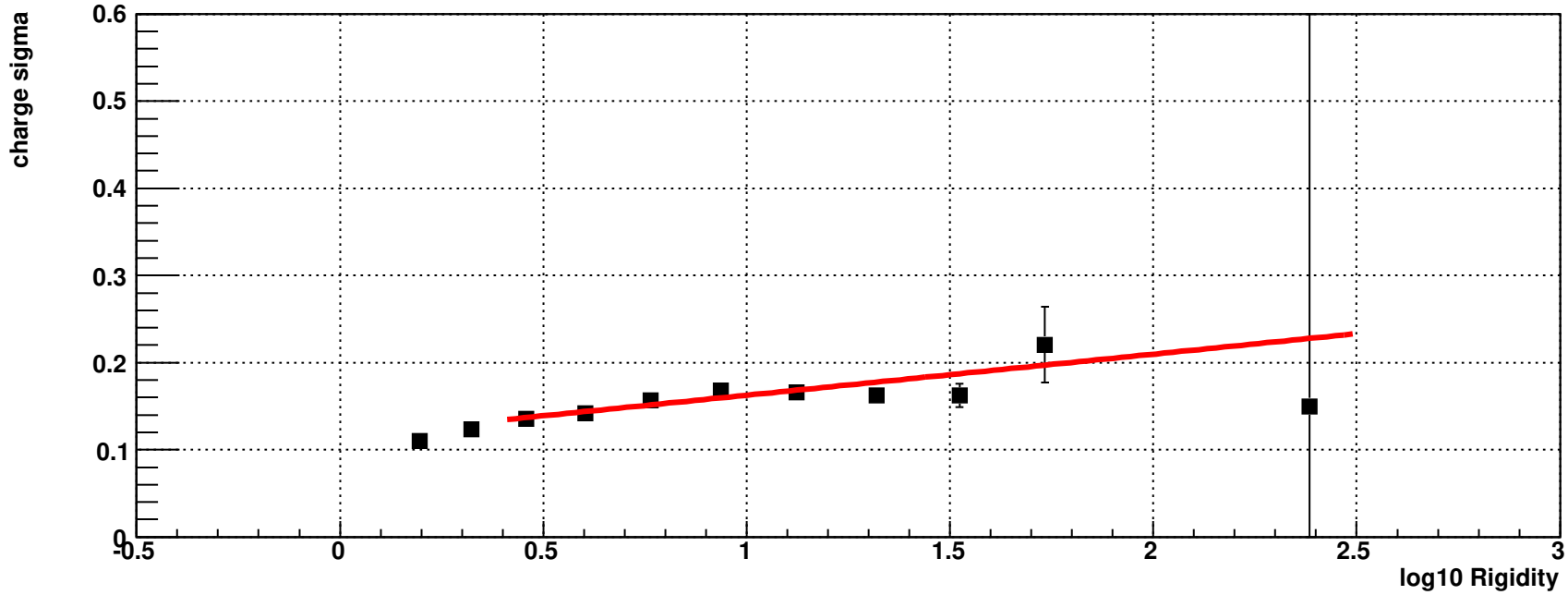

1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_10
Entries 99
Mean 3.035
χ² / ndf 18.35 / 27
Constant 3.594 ± 0.685
Mean 3.095 ± 0.033
Sigma 0.2207 ± 0.0434
charge

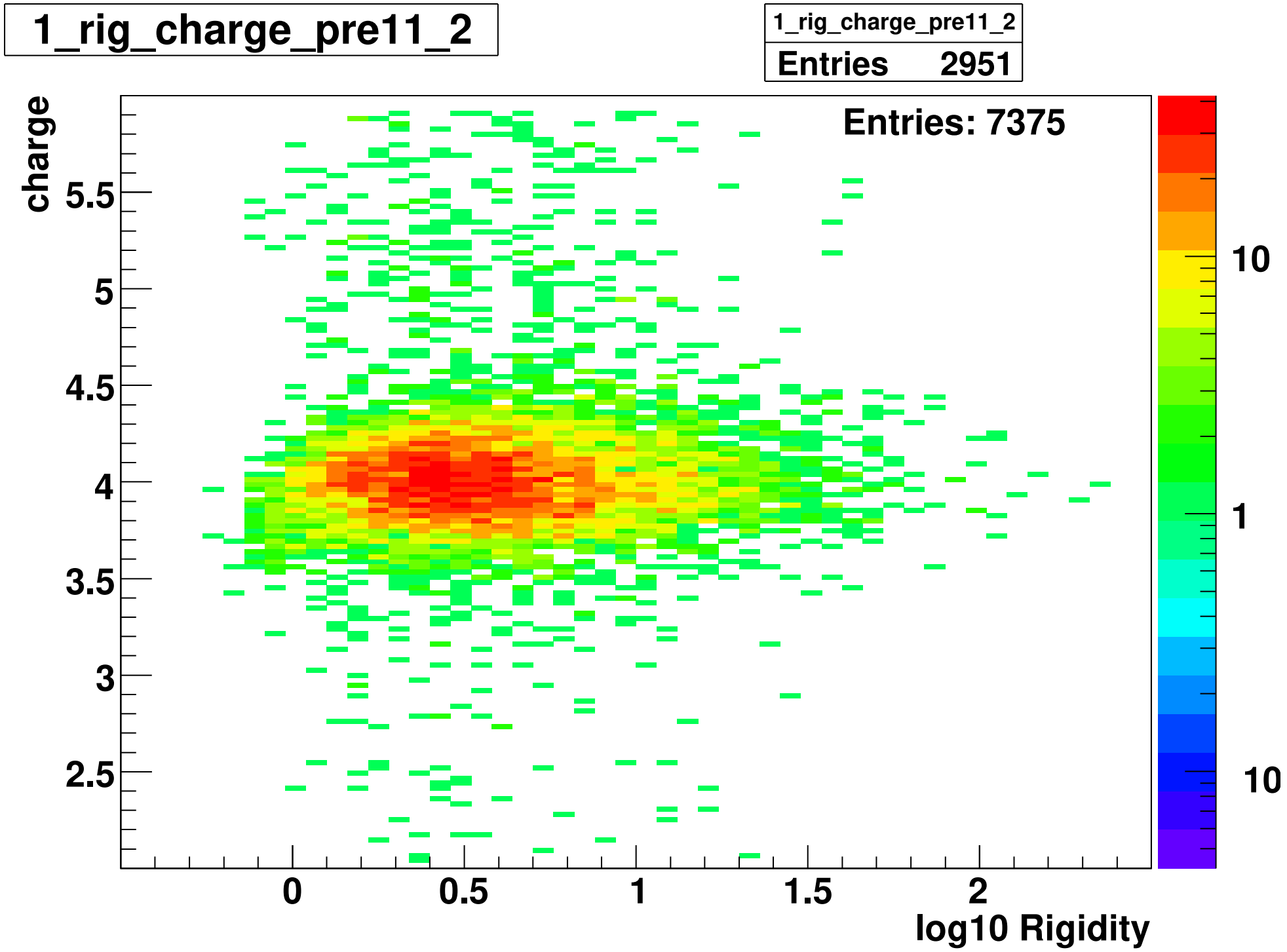

1_rig_charge_pre11_1
1_rig_charge_pre11_1_py_11
Entries 48
Mean 2.923
χ² / ndf 17.01 / 25
p0 2.586 ± 0.466
p1 3.036 ± 0.040
charge

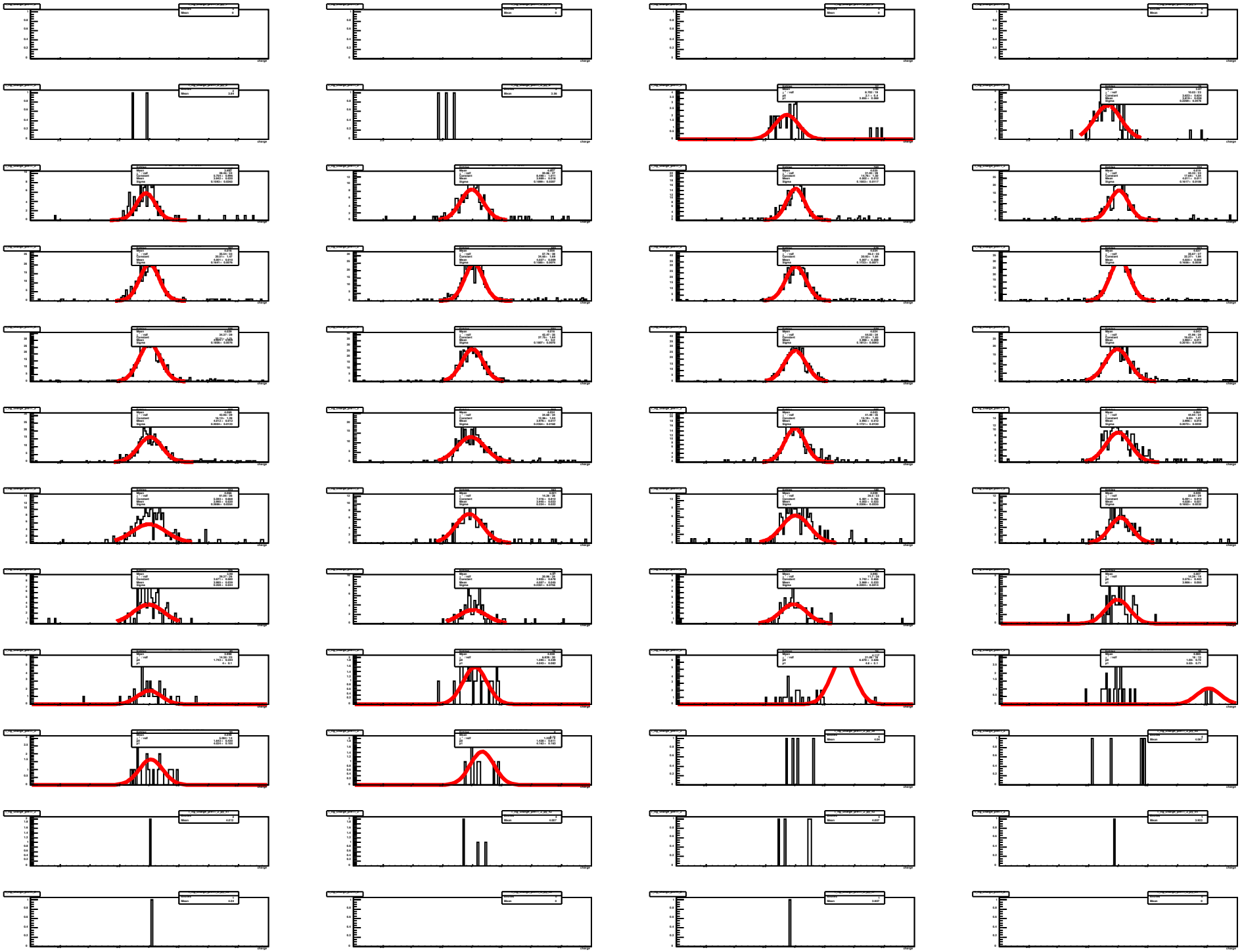
1_rig_charge_pre11_1 Lithium



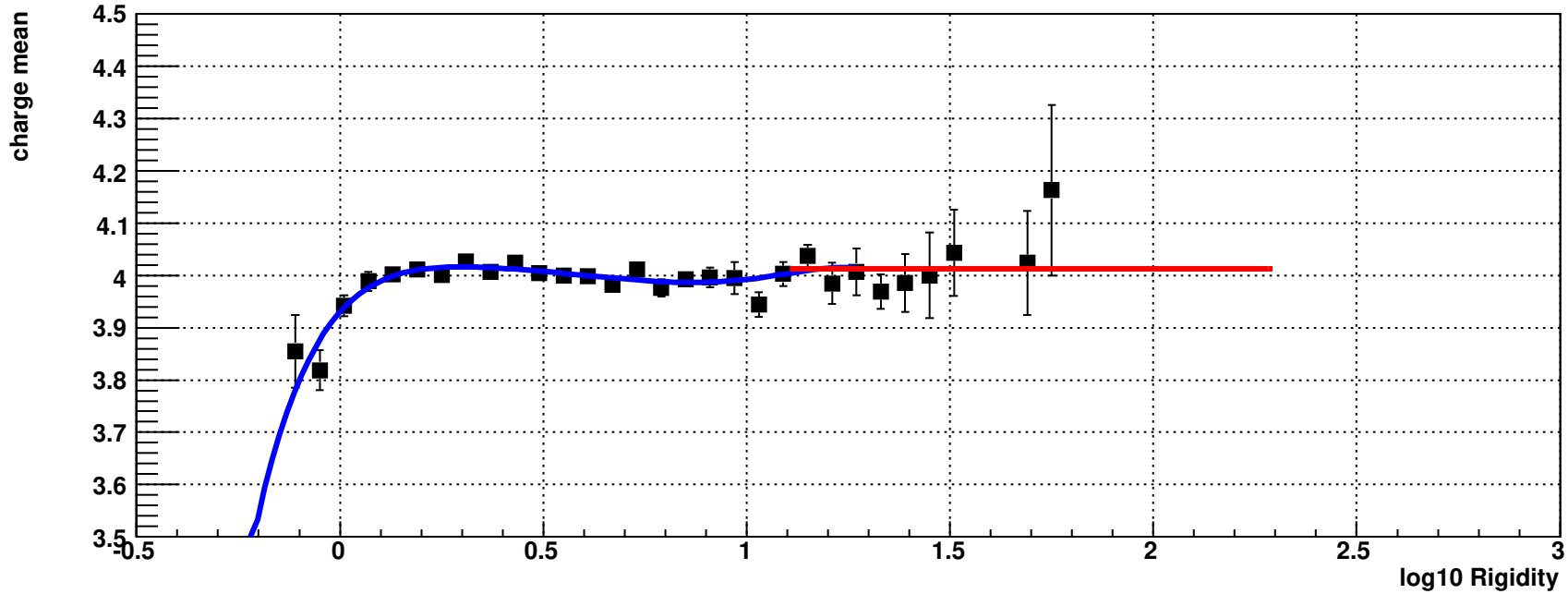
1_rig_charge_pre11_1 Lithium



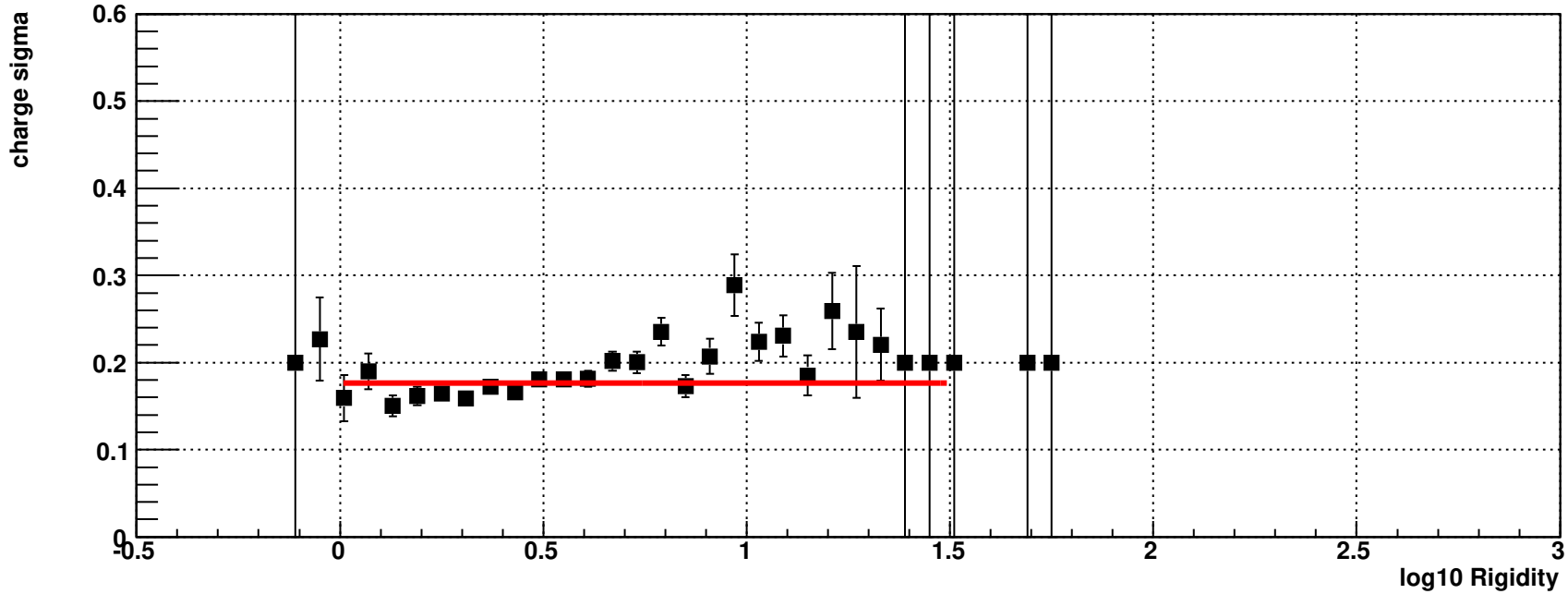

1_rig_charge_pre11_2
1_rig_charge_pre11_2
Entries 2951
Entries: 7375
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

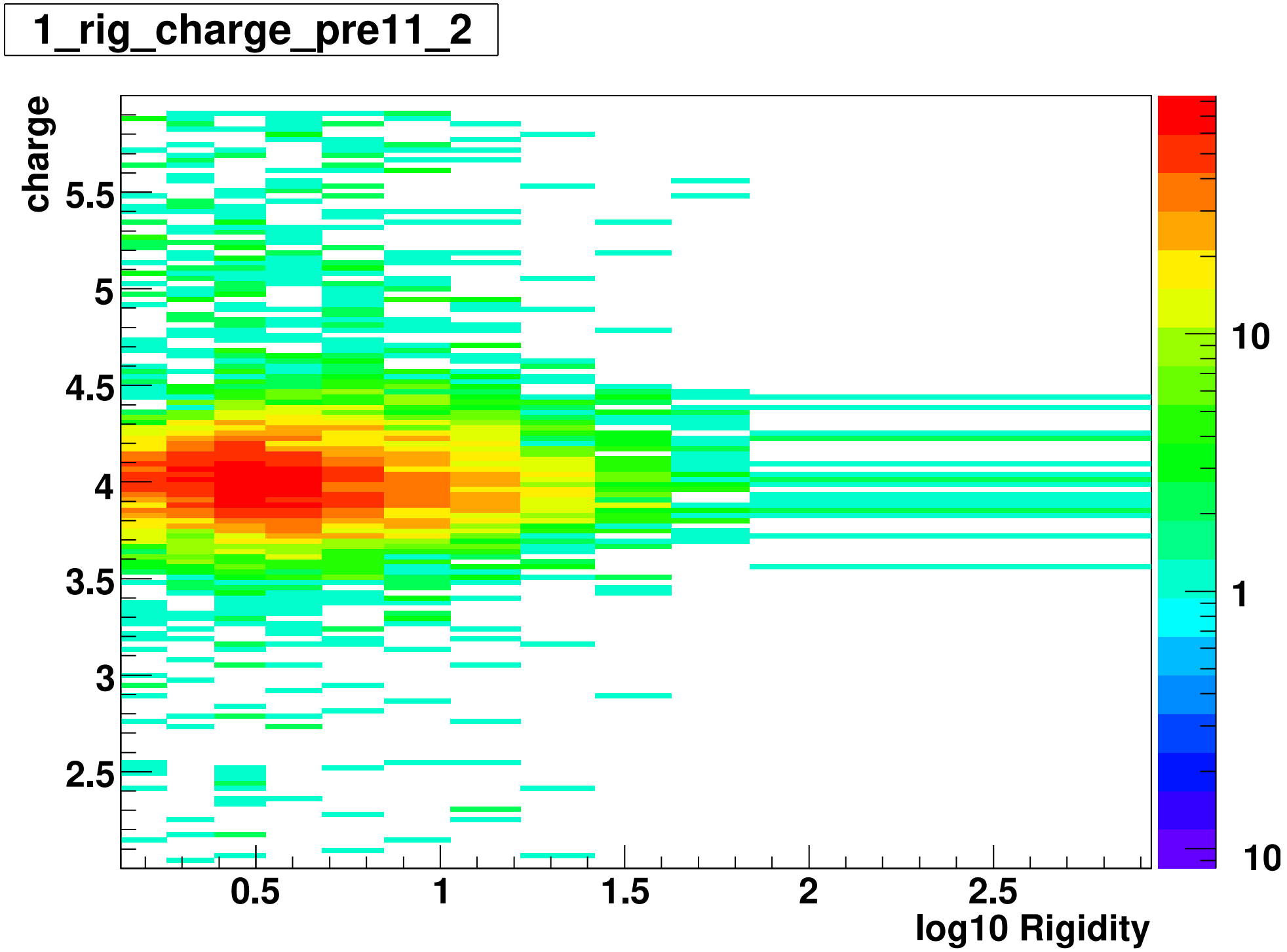


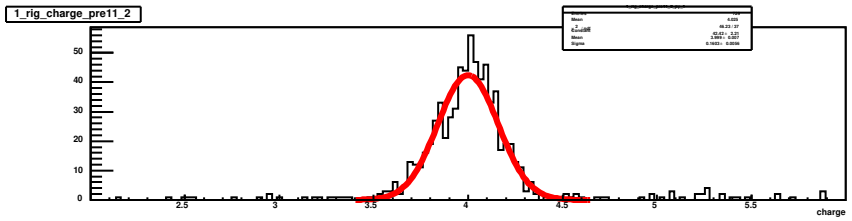
1_rig_charge_pre11_2 Beryllium

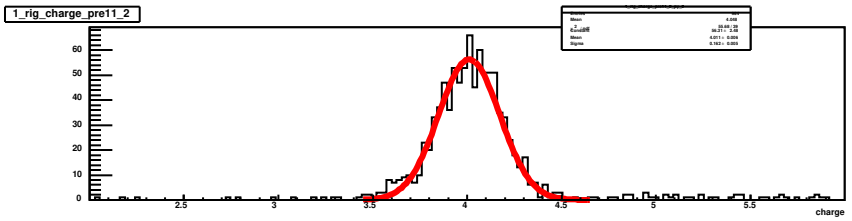


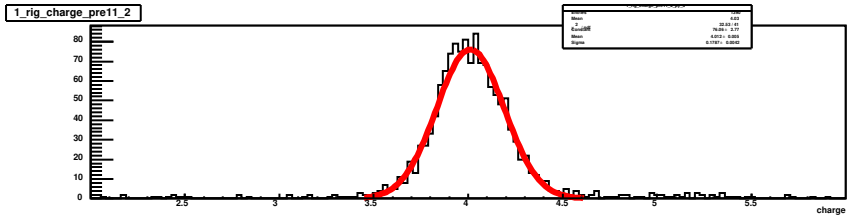
1_rig_charge_pre11_2 Beryllium

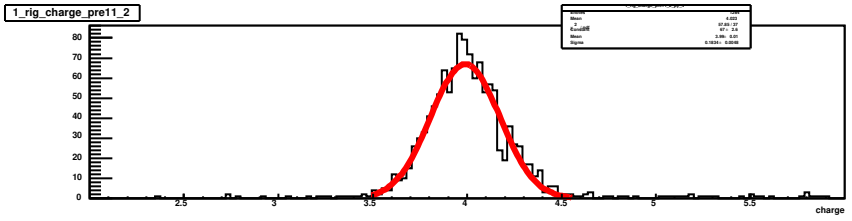


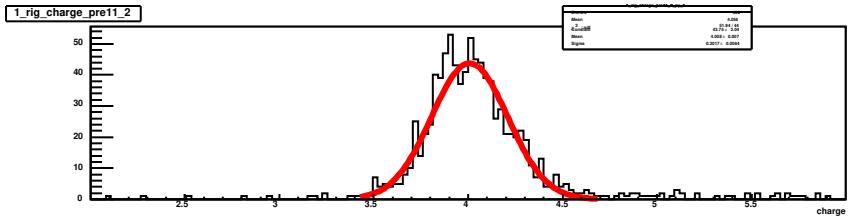

1_rig_charge_pre11_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10
1
10

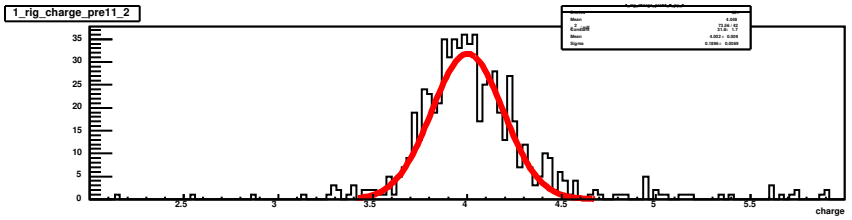

1_rig_charge_pre11_2
charge

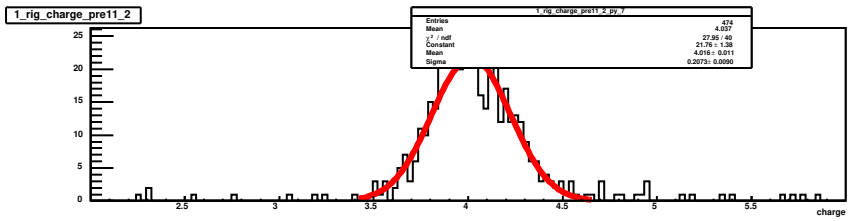

1_rig_charge_pre11_2
charge

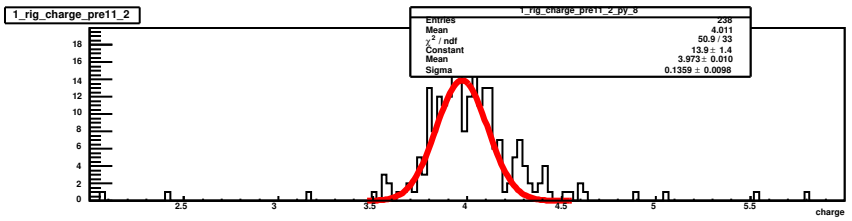

1_rig_charge_pre11_2
charge

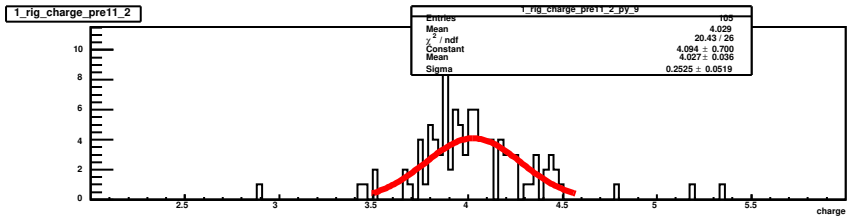

1_rig_charge_pre11_2
charge

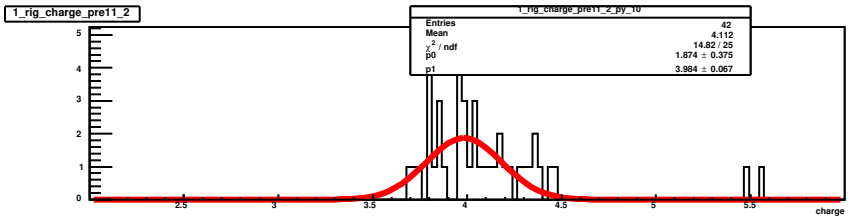

1_rig_charge_pre11_2
charge

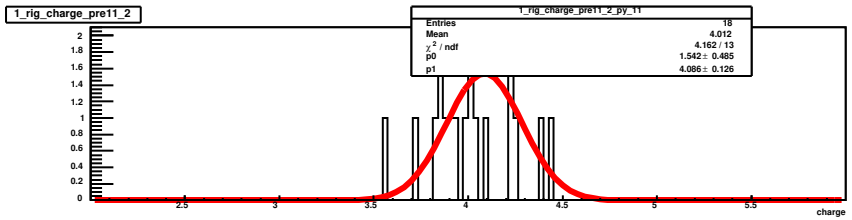

1_rig_charge_pre11_2
charge


1_rig_charge_pre11_2
1_rig_charge_pre11_2_py_7
Entries 474
Mean 4.037
χ² / ndf 27.55 / 40
Constant 21.76 ± 1.38
Mean 4.016 ± 0.011
Sigma 0.2073 ± 0.0090
charge

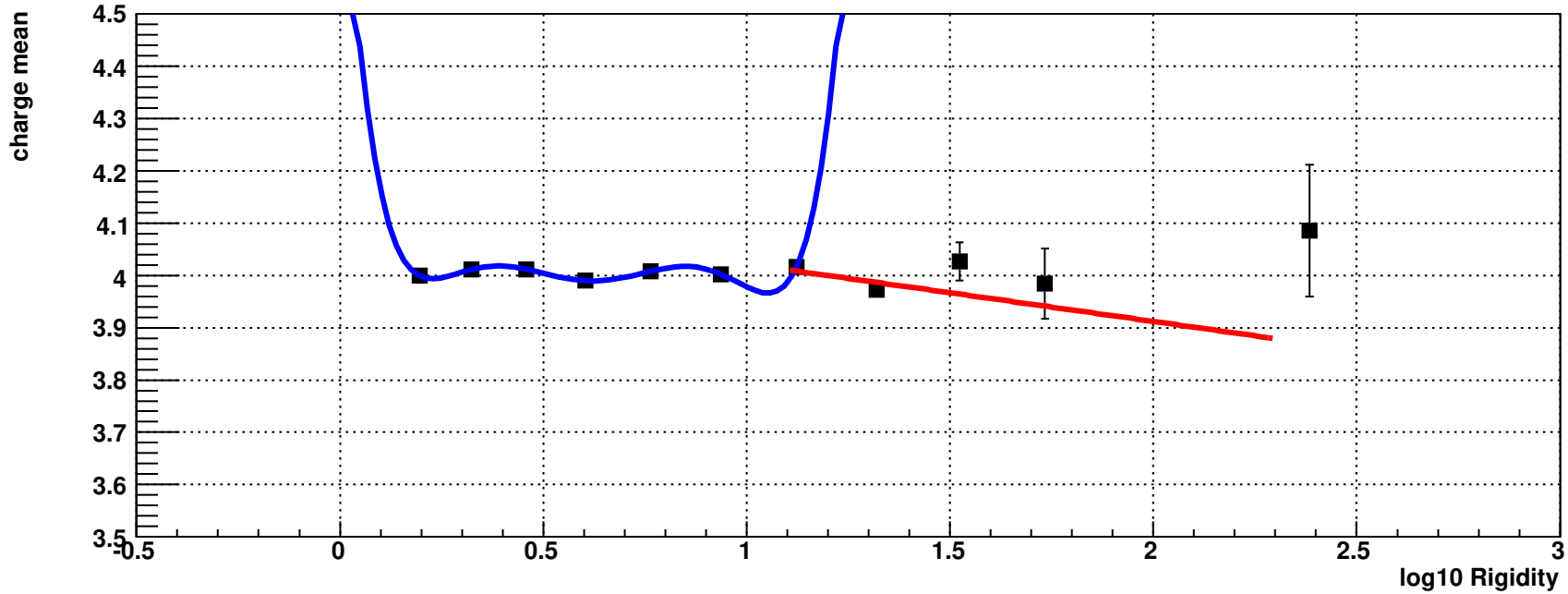

1_rig_charge_pre11_2
1_rig_charge_pre11_2_py_8
Entries 238
Mean 4.011
χ² / ndf 50.9 / 33
Constant 13.9 ± 1.4
Mean 3.973 ± 0.010
Sigma 0.1359 ± 0.0098
charge


1_rig_charge_pre11_2
1_rig_charge_pre11_2_py_9
Entries 105
Mean 4.029
χ² / ndf 20.43 / 26
Constant 4.094 ± 0.700
Mean 4.027 ± 0.036
Sigma 0.2525 ± 0.0519
charge

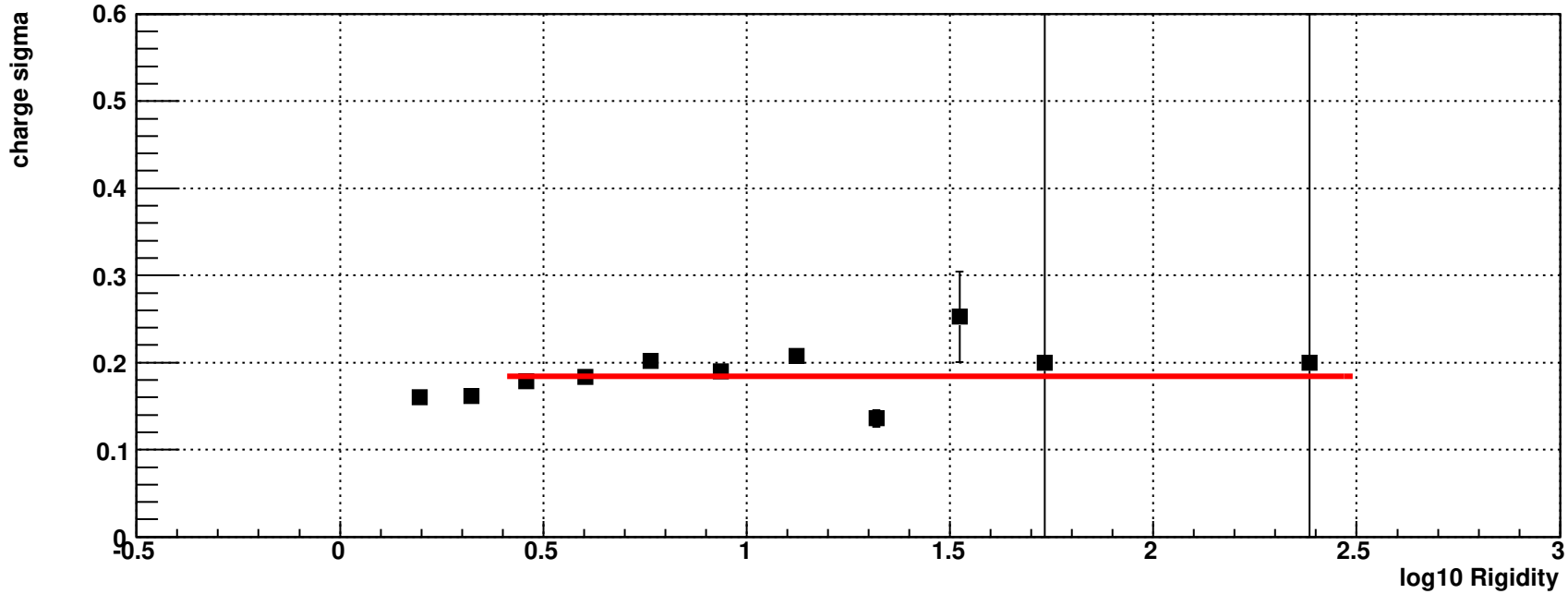

1_rig_charge_pre11_2
1_rig_charge_pre11_2_py_10
Entries 42
Mean 4.112
χ² / ndf 14.82 / 25
p0 1.874 ± 0.375
p1 3.984 ± 0.067
charge

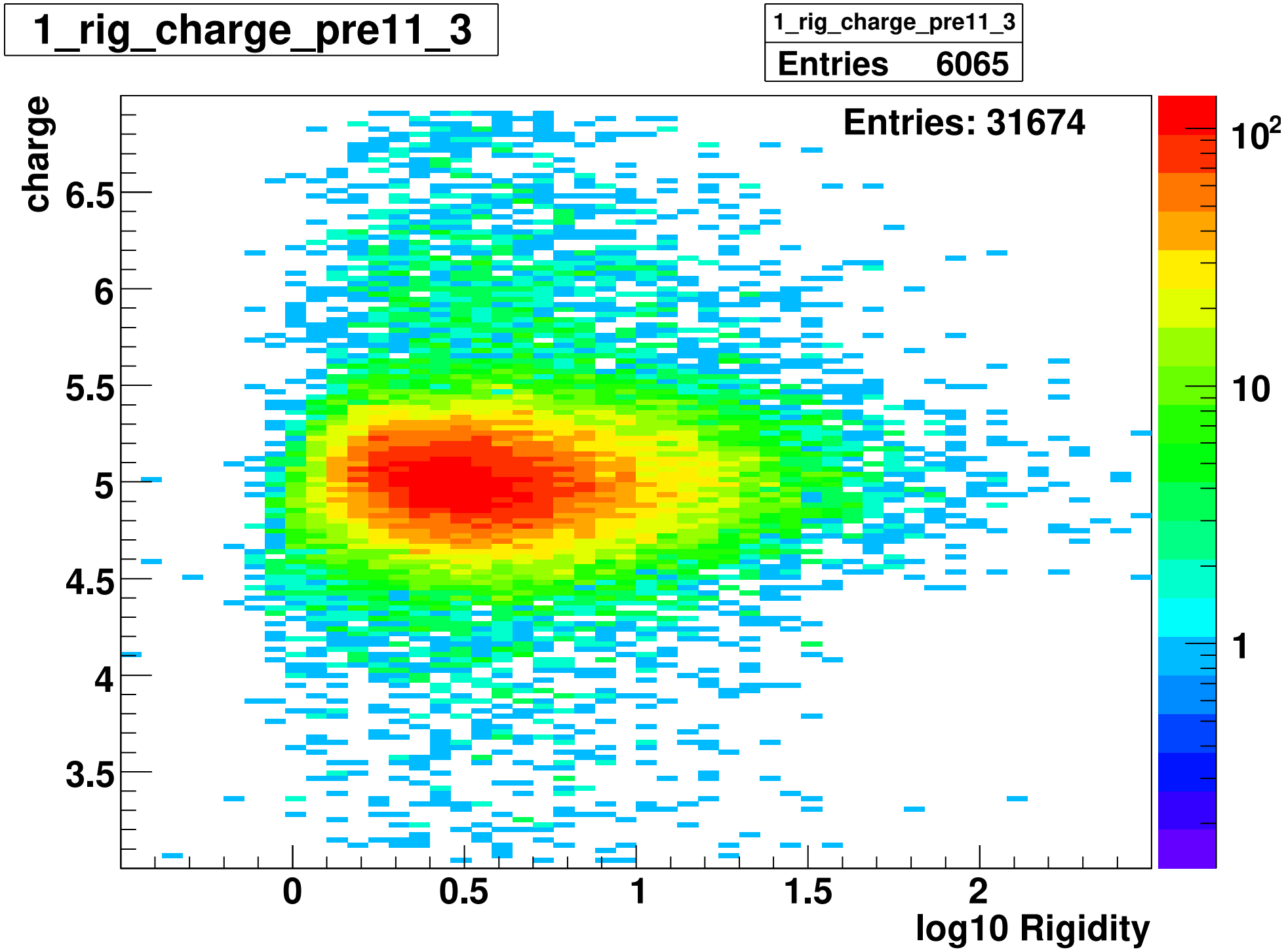

1_rig_charge_pre11_2
1_rig_charge_pre11_2_py_11
Entries 18
Mean 4.012
χ² / ndf 4.162 / 13
p0 1.542 ± 0.485
p1 4.086 ± 0.126
charge

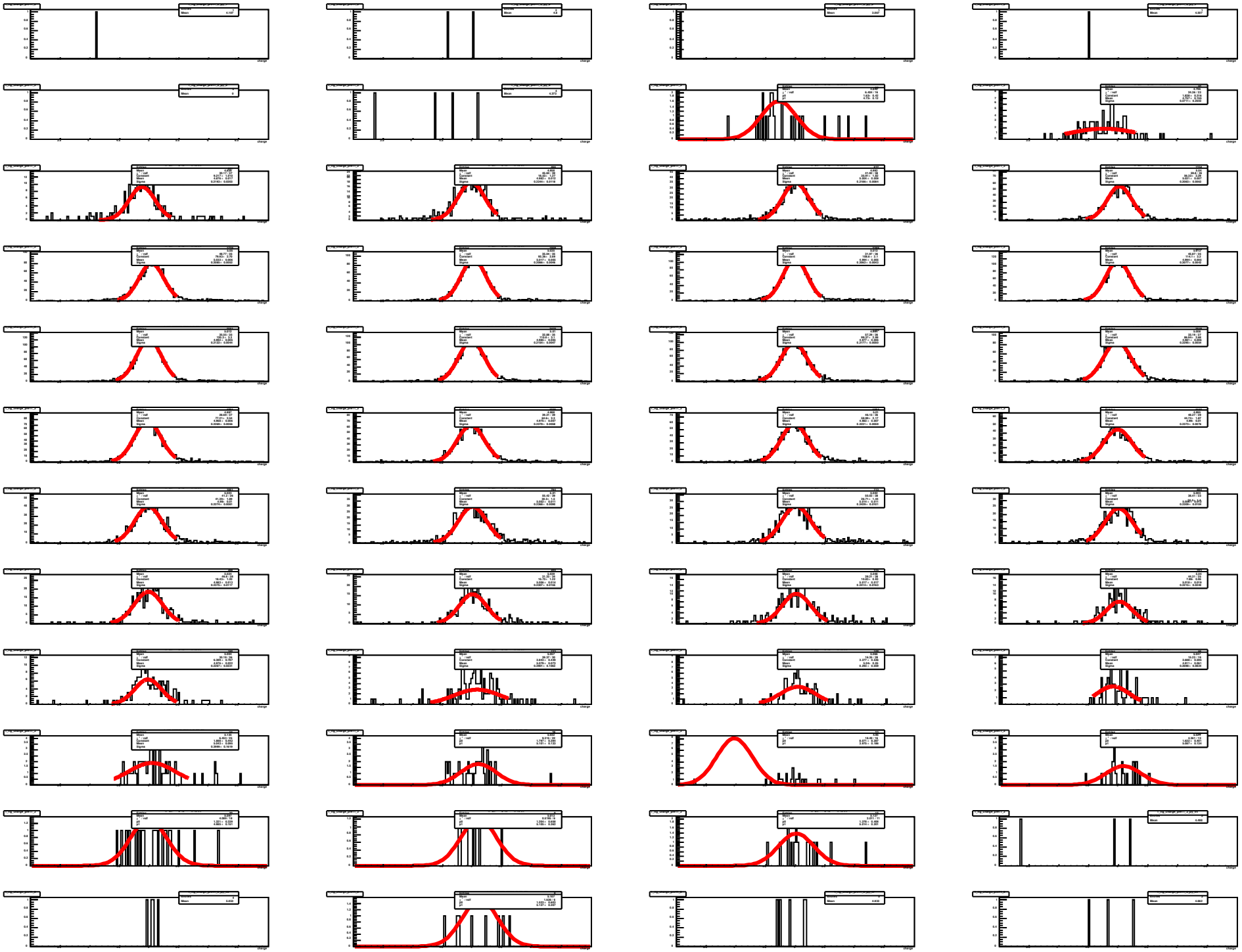
1_rig_charge_pre11_2 Beryllium



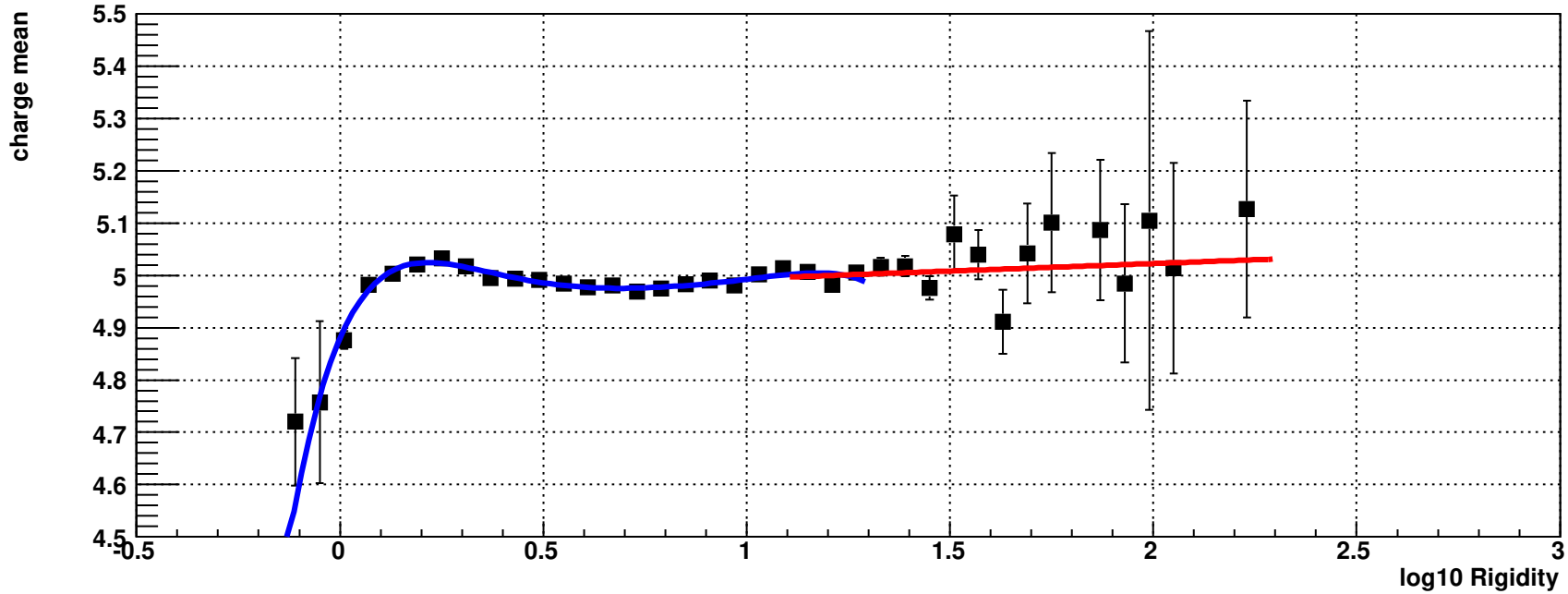
1_rig_charge_pre11_2 Beryllium



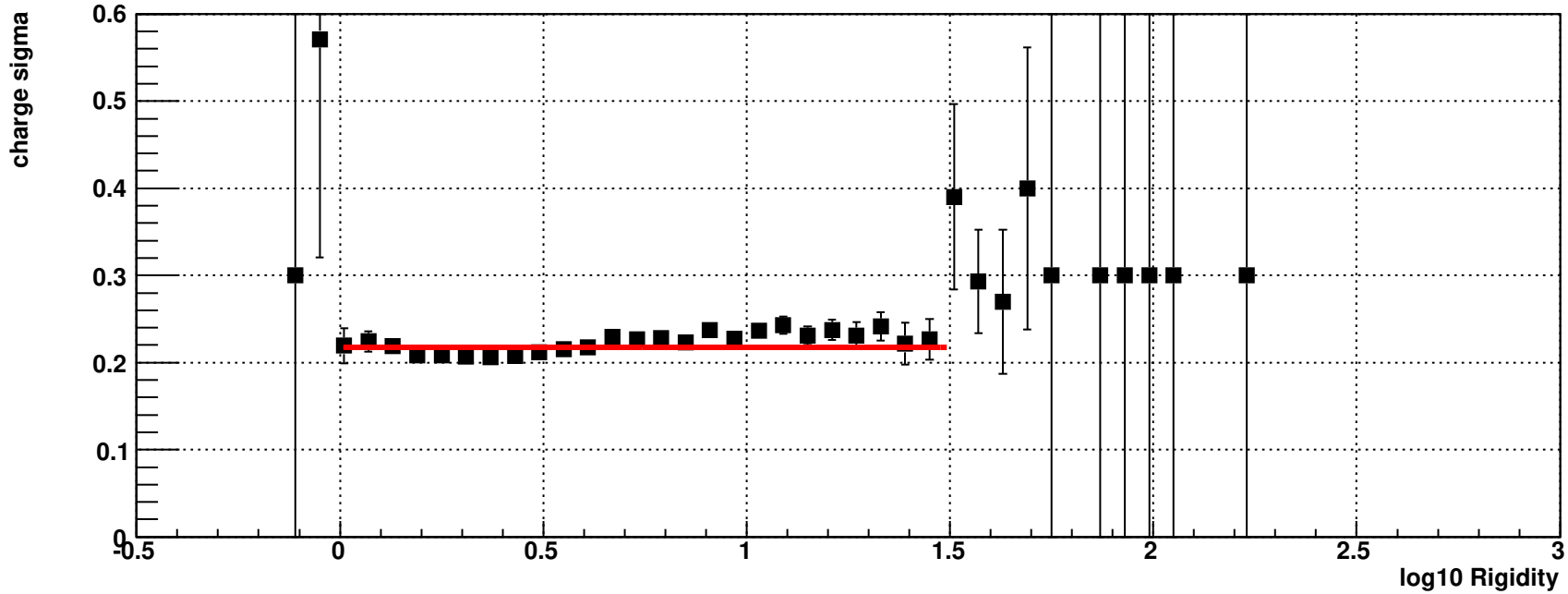

1_rig_charge_pre11_3
1_rig_charge_pre11_3
Entries 6065
Entries: 31674
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

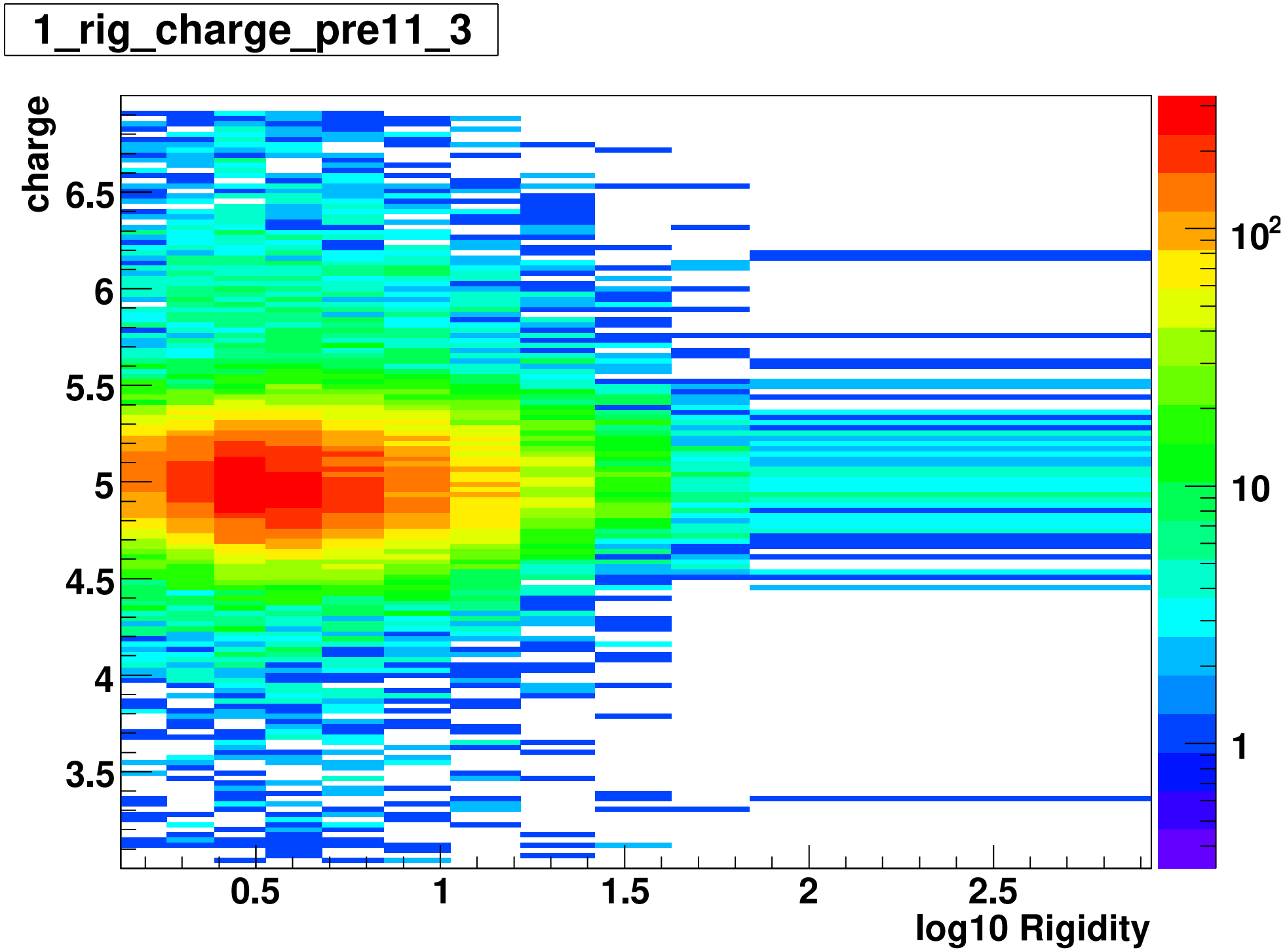


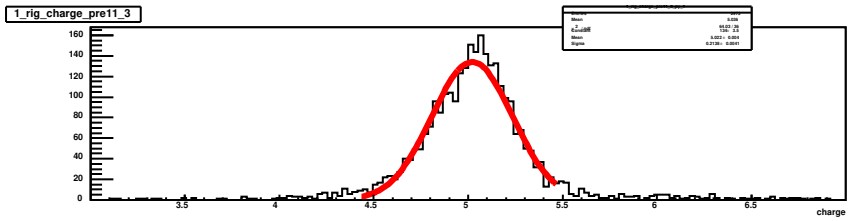
1_rig_charge_pre11_3 Boron

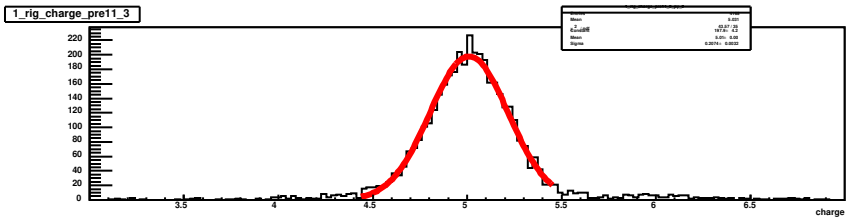


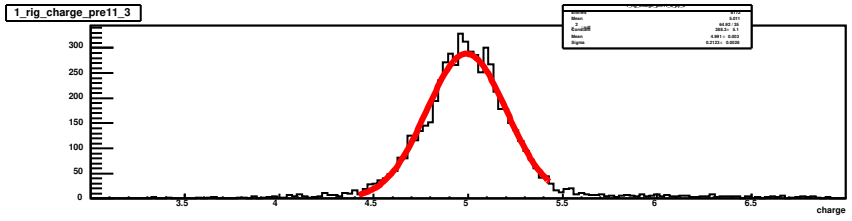
1_rig_charge_pre11_3 Boron

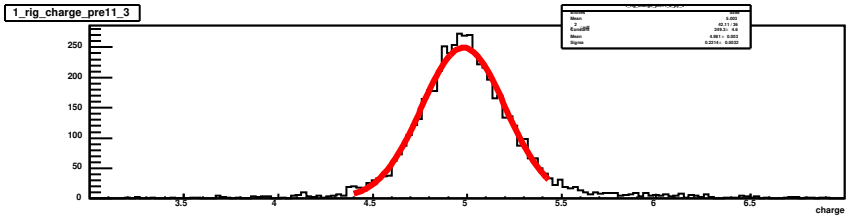


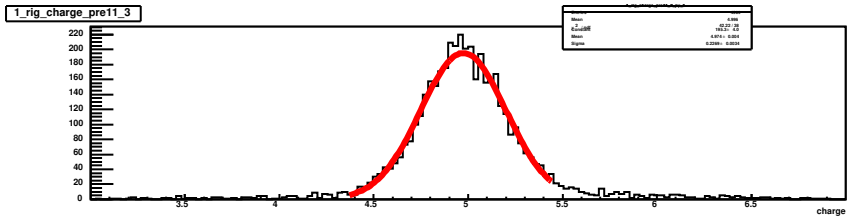

1_rig_charge_pre11_3
charge
6.5
6
5.5
5
4.5
4
3.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

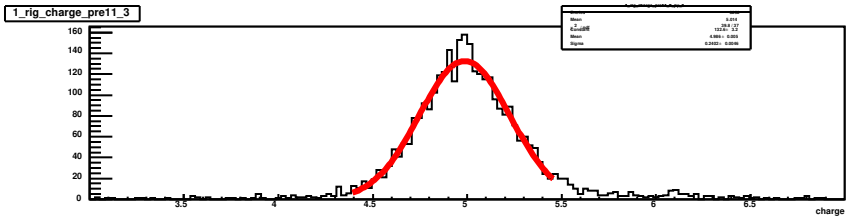

1_rig_charge_pre11_3
charge

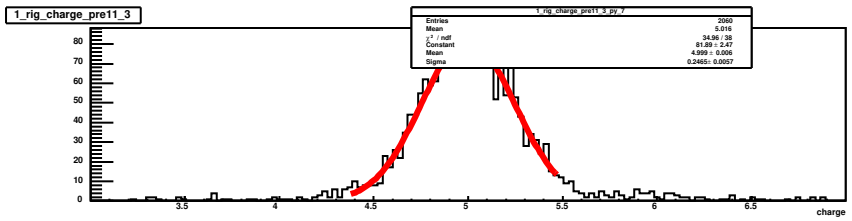

1_rig_charge_pre11_3
charge

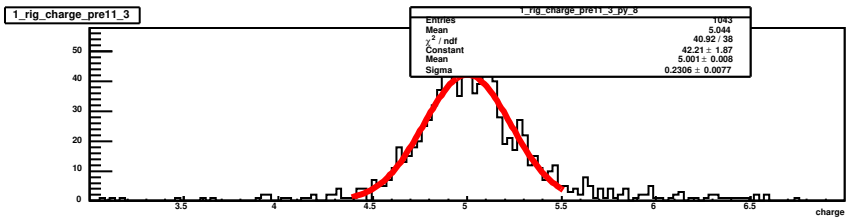

1_rig_charge_pre11_3
charge

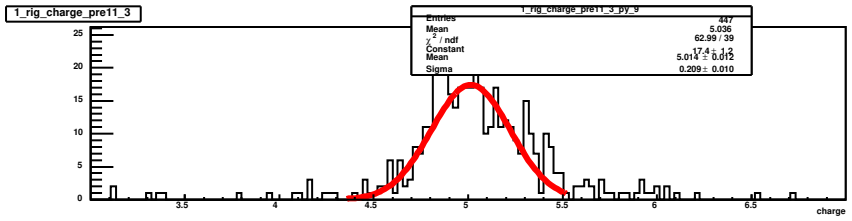

1_rig_charge_pre11_3
charge

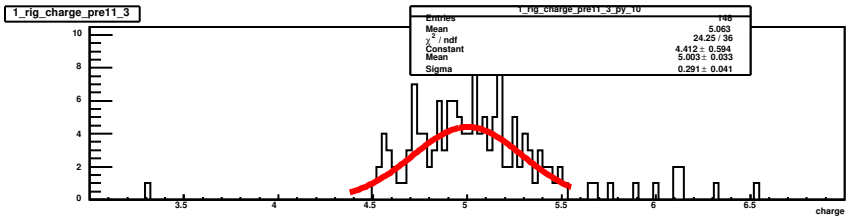

1_rig_charge_pre11_3
charge

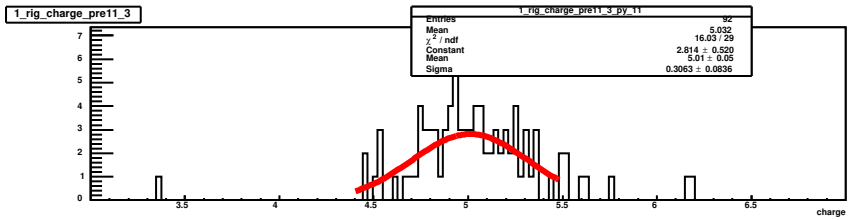

1_rig_charge_pre11_3
charge


1_rig_charge_pre11_3
1_rig_charge_pre11_3_py_7
Entries 2060
Mean 5.016
χ² / ndf 34.96 / 38
Constant 81.89 ± 2.47
Mean 4.999 ± 0.006
Sigma 0.2465 ± 0.0057
charge

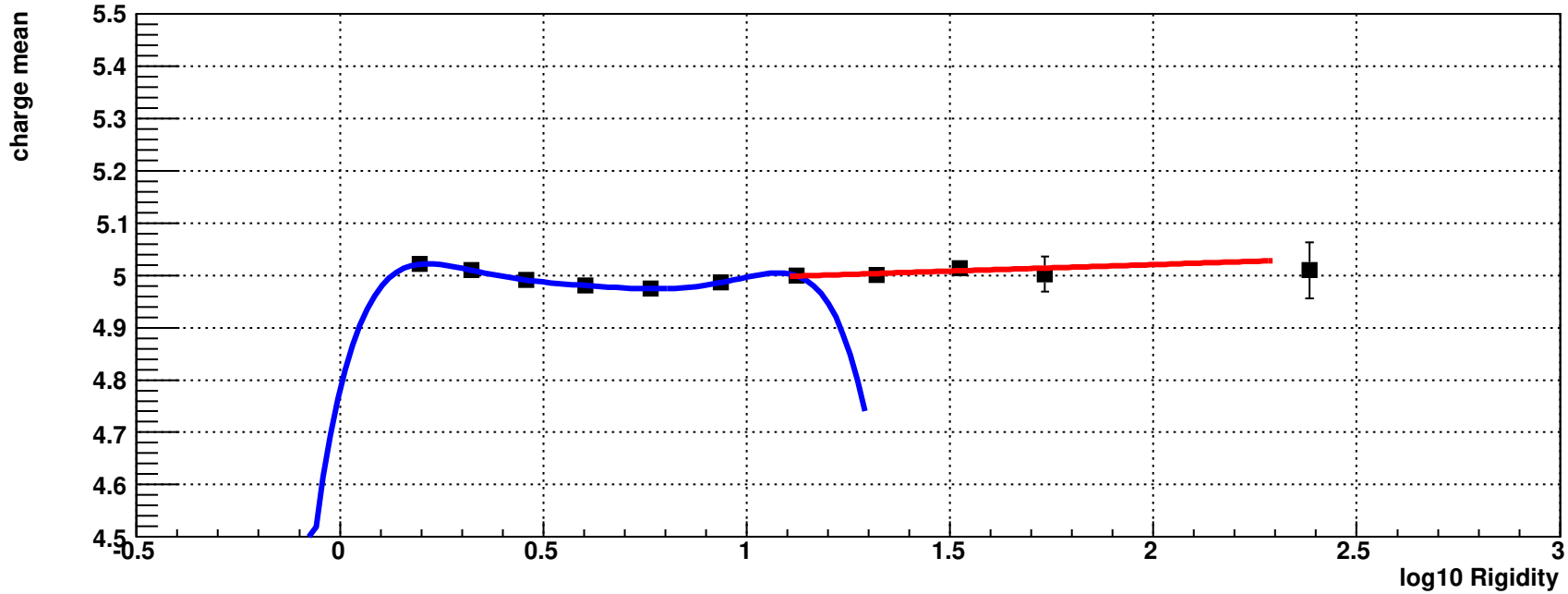

1_rig_charge_pre11_3
1_rig_charge_pre11_3_py_8
Entries 1043
Mean 5.044
χ² / ndf 40.92 / 38
Constant 42.21 ± 1.67
Mean 5.001 ± 0.008
Sigma 0.2306 ± 0.0077
charge


1_rig_charge_pre11_3
1_rig_charge_pre11_3_py_9
Entries 447
Mean 5.035
χ² / ndf 62.99 / 39
Constant 17.4 ± 1.2
Mean 5.014 ± 0.012
Sigma 0.209 ± 0.010
charge

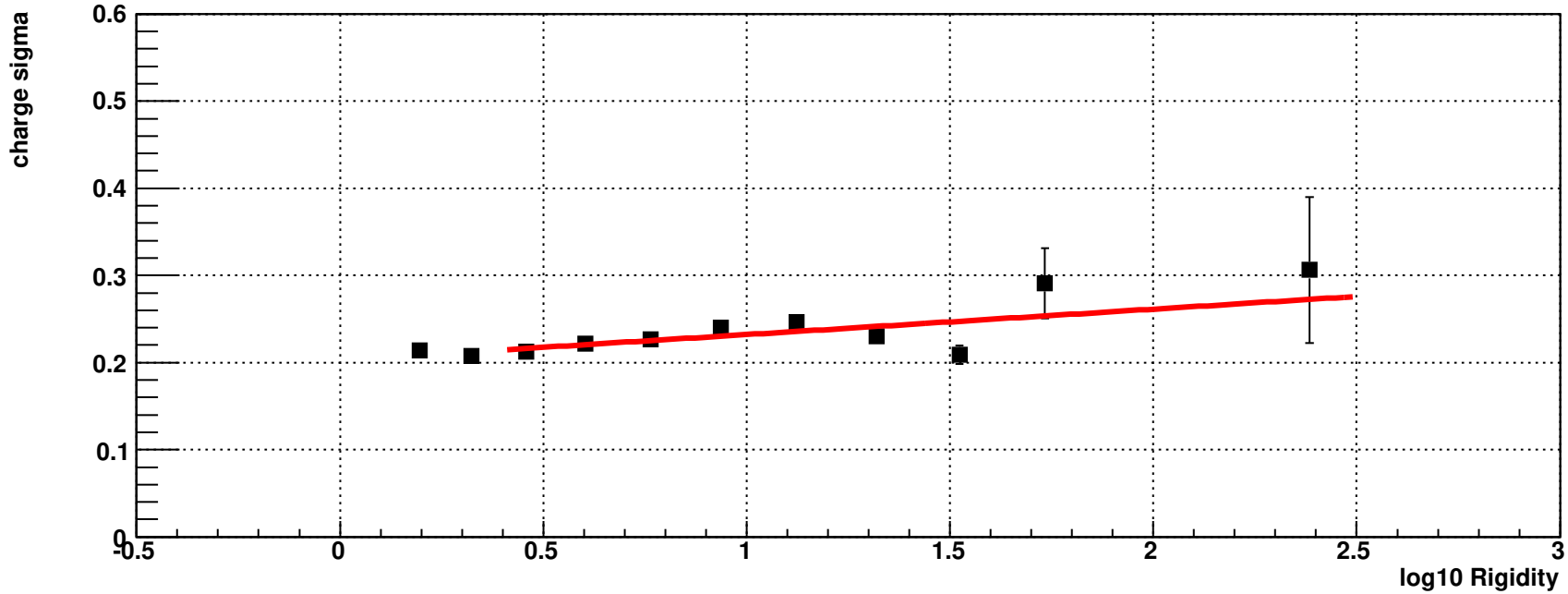

1_rig_charge_pre11_3
1_rig_charge_pre11_3_py_10
Entries 148
Mean 5.063
χ² / ndf 24.25 / 36
Constant 4.412 ± 0.594
Mean 5.003 ± 0.033
Sigma 0.291 ± 0.041
charge

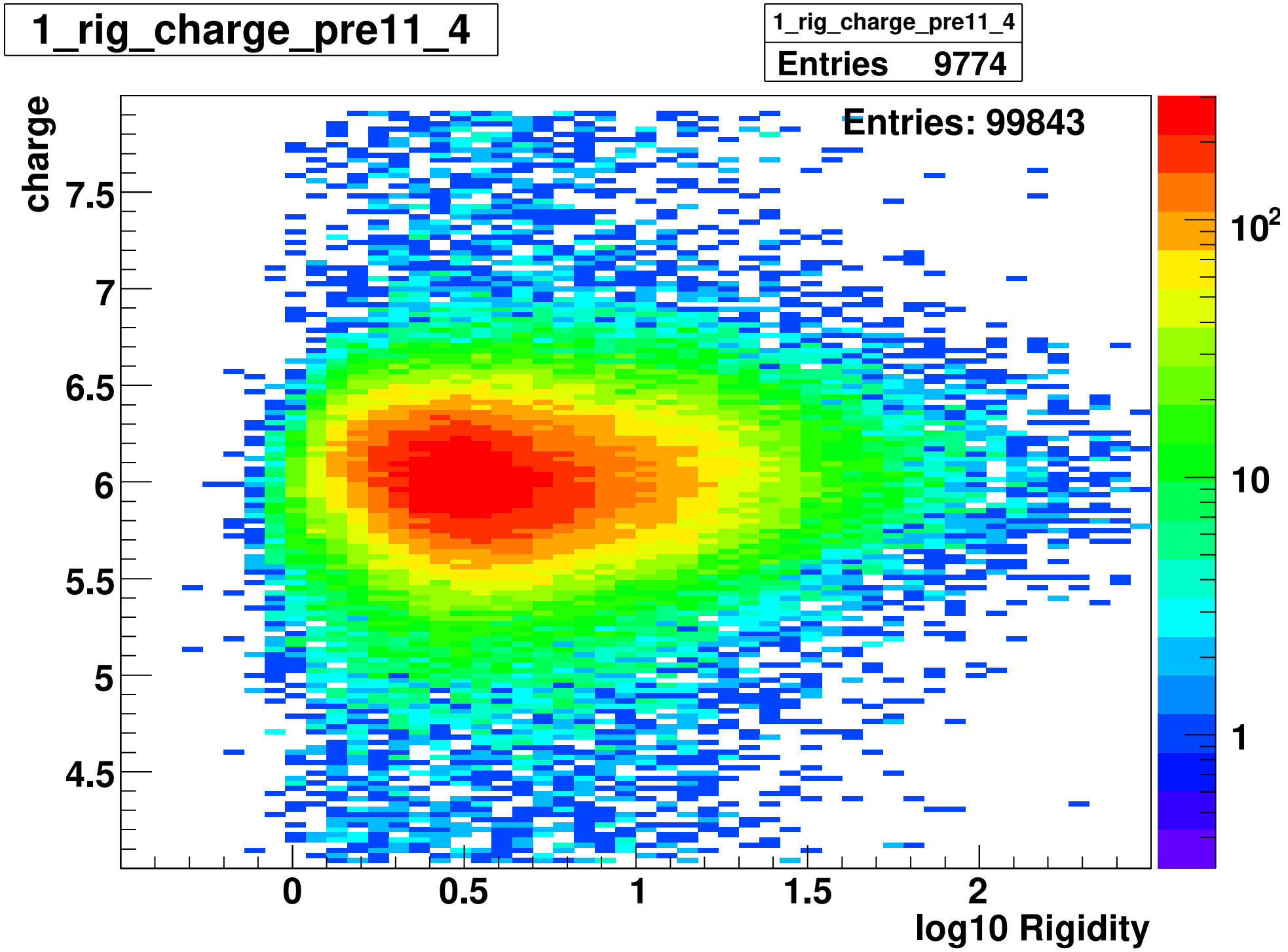

1_rig_charge_pre11_3
1_rig_charge_pre11_3_py_11
Entries 92
Mean 5.032
χ² / ndf 16.03 / 29
Constant 2.814 ± 0.520
Mean 5.01 ± 0.05
Sigma 0.3063 ± 0.0836
charge

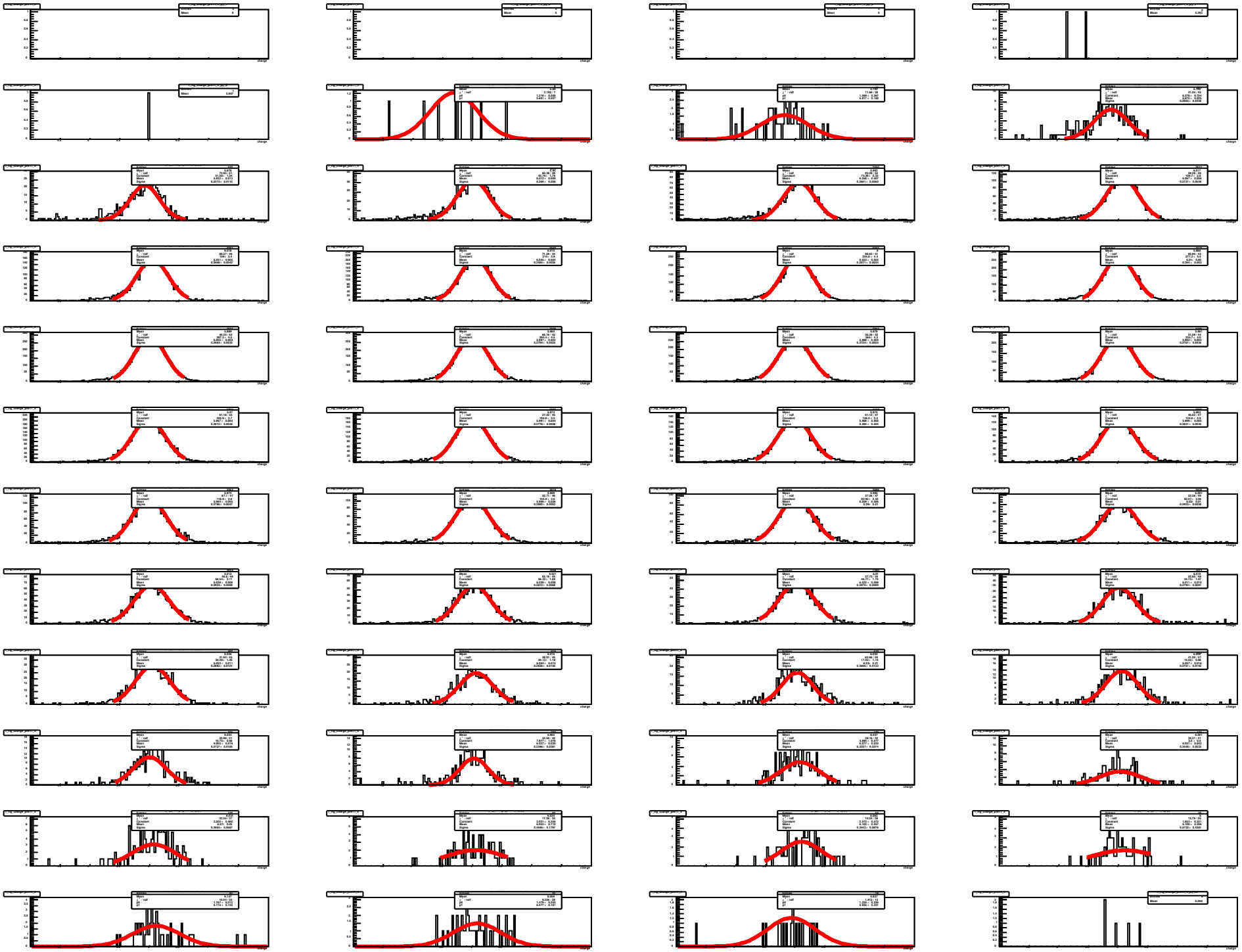
1_rig_charge_pre11_3 Boron



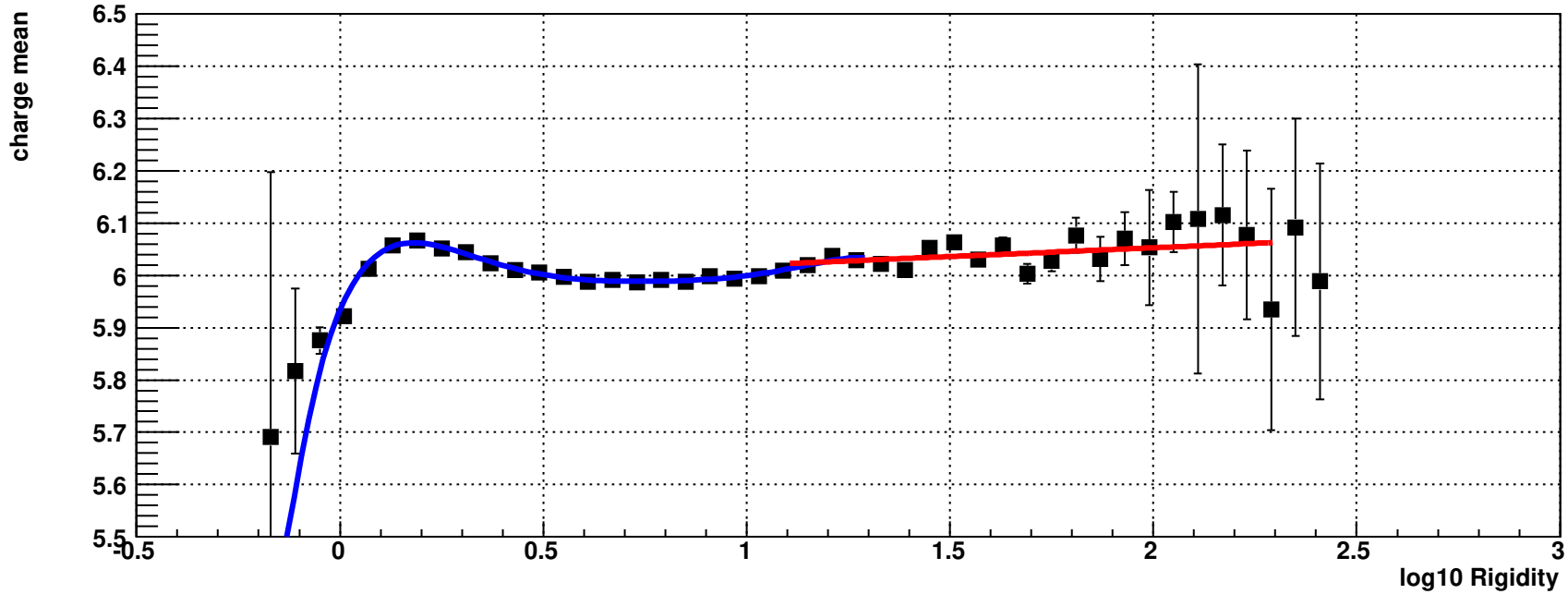
1_rig_charge_pre11_3 Boron



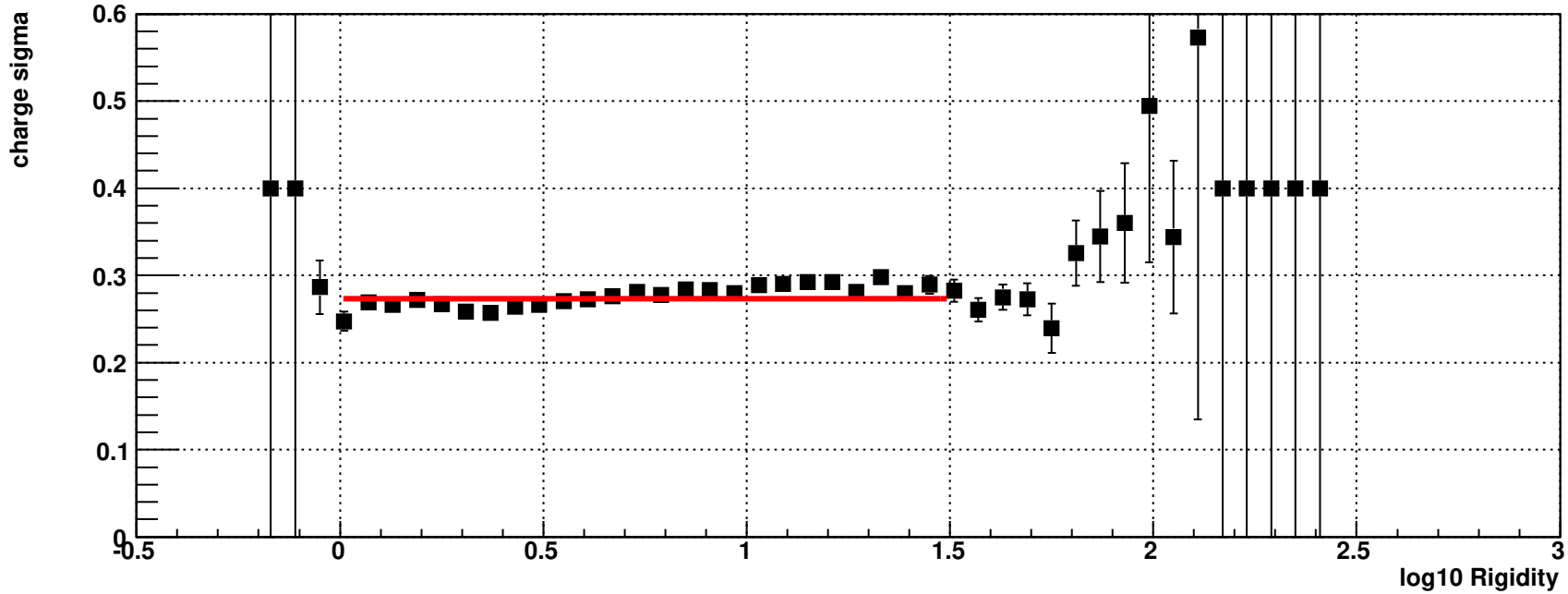

1_rig_charge_pre11_4
1_rig_charge_pre11_4
Entries 9774
Entries: 99843
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

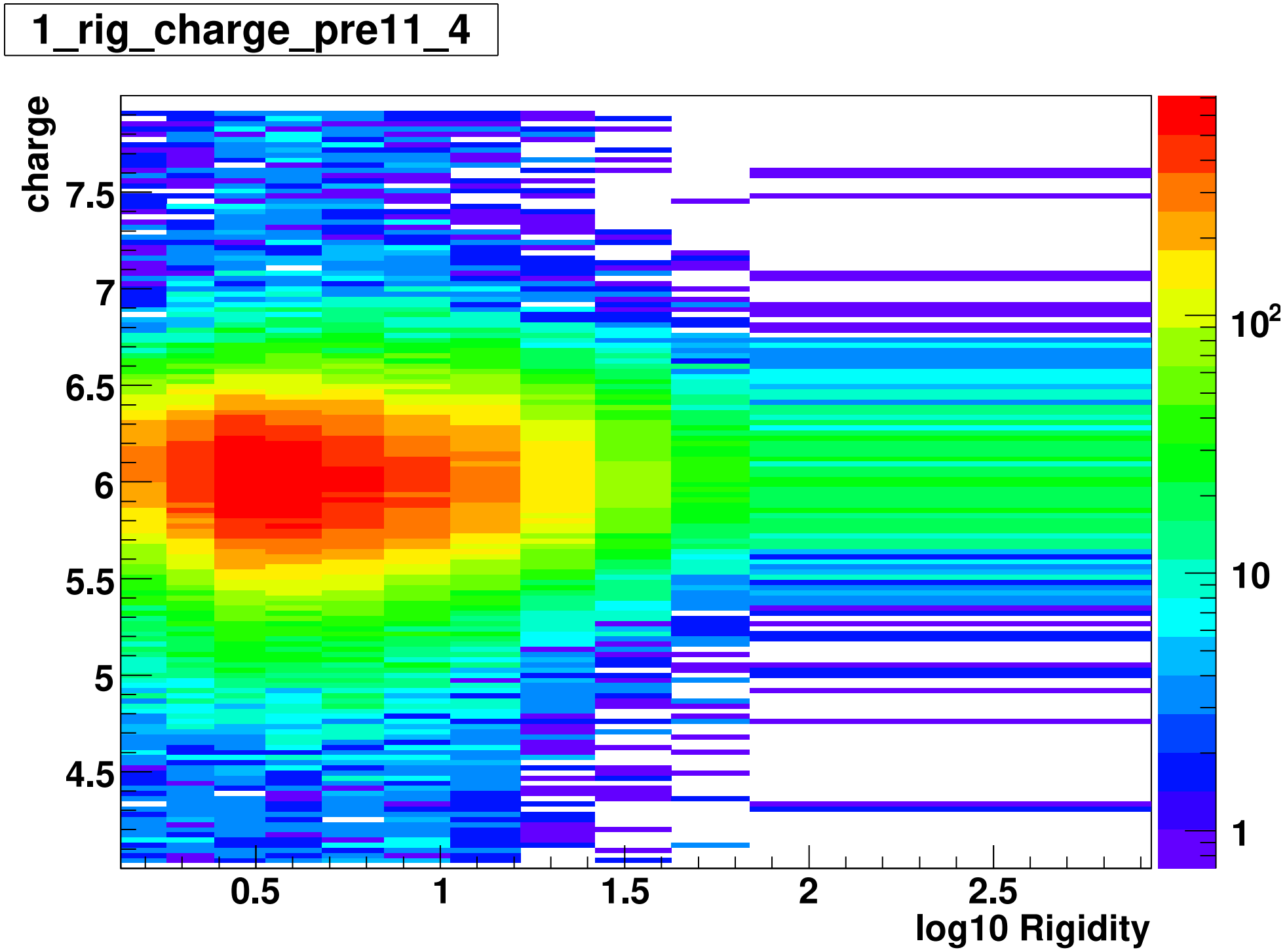


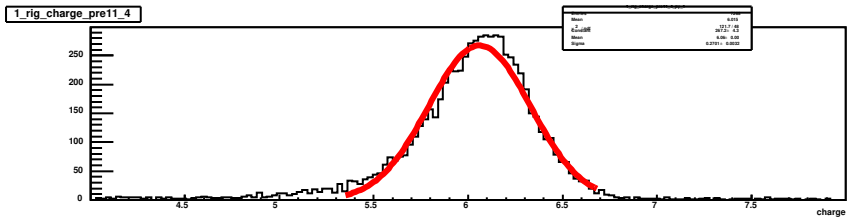
1_rig_charge_pre11_4 Carbon

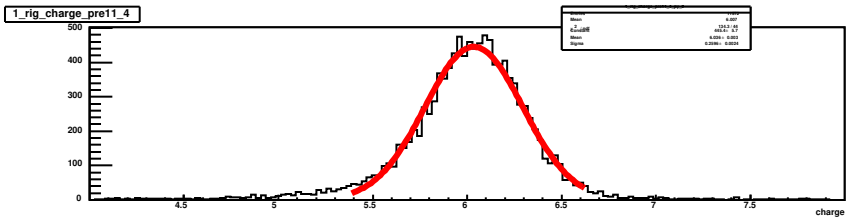


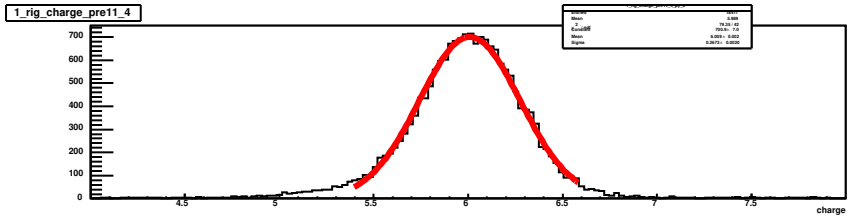
1_rig_charge_pre11_4 Carbon

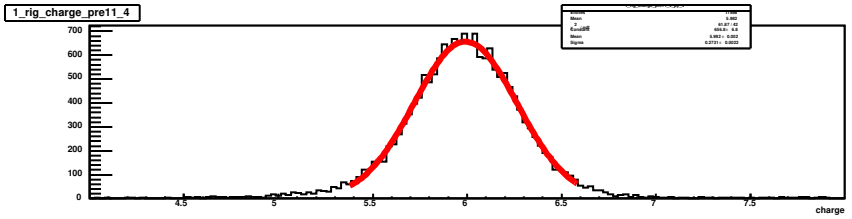


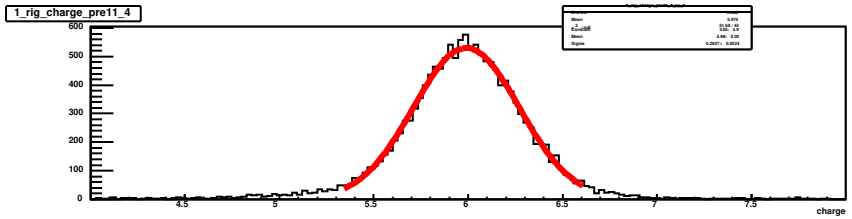

1_rig_charge_pre11_4
charge
7.5
7
6.5
6
5.5
5
4.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

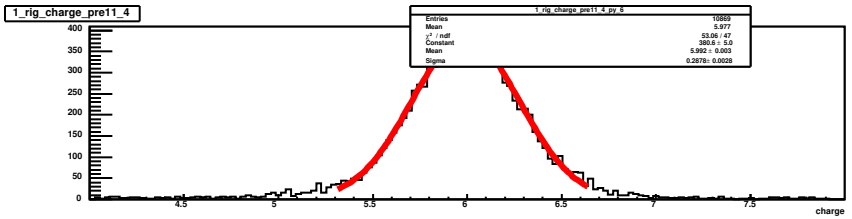

1_rig_charge_pre11_4
charge

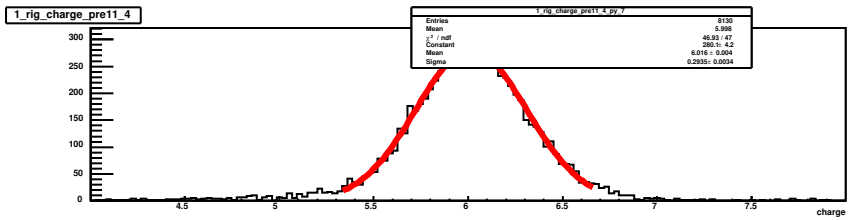

1_rig_charge_pre11_4
charge

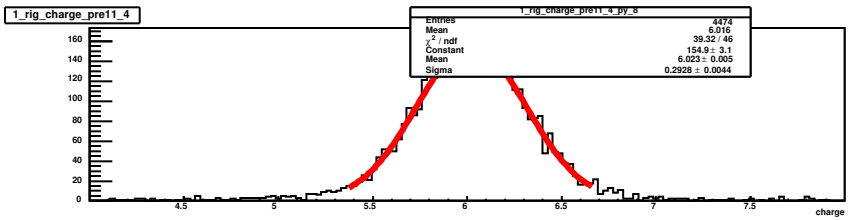

1_rig_charge_pre11_4
charge

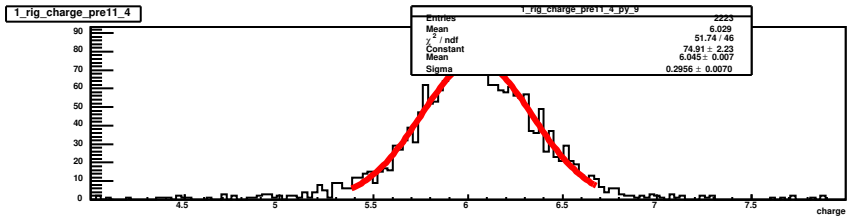

1_rig_charge_pre11_4
charge

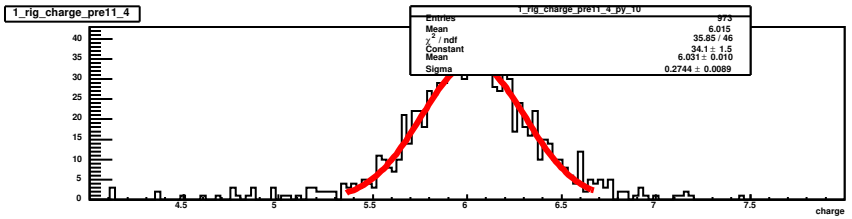

1_rig_charge_pre11_4
charge

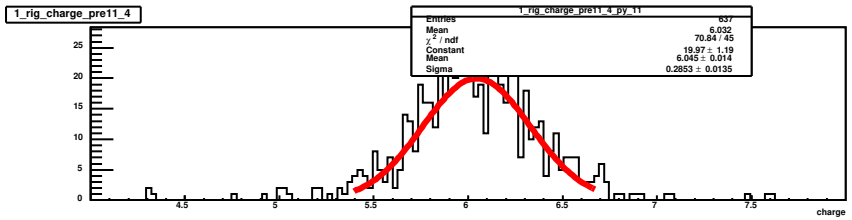

1_rig_charge_pre11_4
1_rig_charge_pre11_4_py_6
Entries 10869
Mean 5.977
χ² / ndf 53.06 / 47
Constant 380.6 ± 5.0
Mean 5.992 ± 0.003
Sigma 0.2878± 0.0028
charge


1_rig_charge_pre11_4
1_rig_charge_pre11_4_py_7
Entries 8130
Mean 5.998
χ² / ndf 46.93 / 47
Constant 280.1± 4.2
Mean 6.016 ± 0.004
Sigma 0.2935± 0.0034
charge

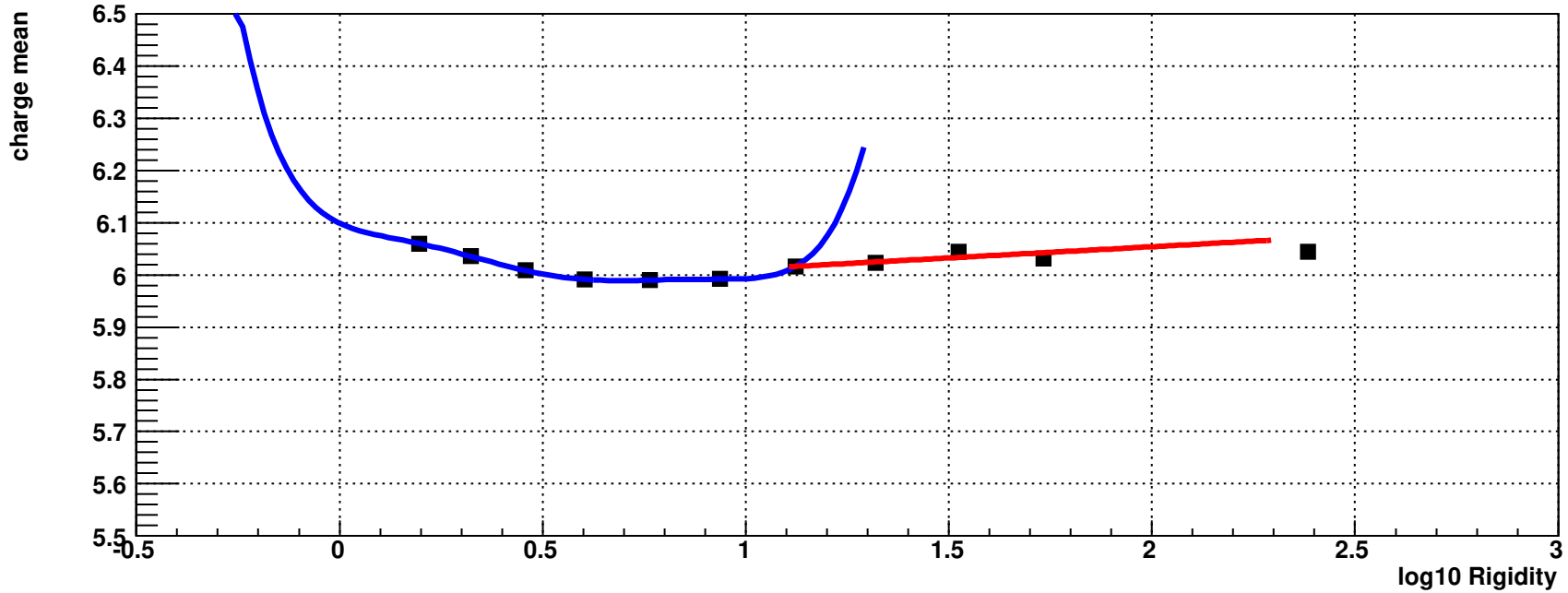

1_rig_charge_pre11_4
1_rig_charge_pre11_4_py_8
Entries 4474
Mean 6.016
χ² / ndf 39.32 / 46
Constant 154.9 ± 3.1
Mean 6.023 ± 0.005
Sigma 0.2928 ± 0.0044
charge


1_rig_charge_pre11_4
1_rig_charge_pre11_4_py_9
Entries 2223
Mean 6.029
χ² / ndf 51.74 / 46
Constant 74.91 ± 2.23
Mean 6.045 ± 0.007
Sigma 0.2956 ± 0.0070
charge

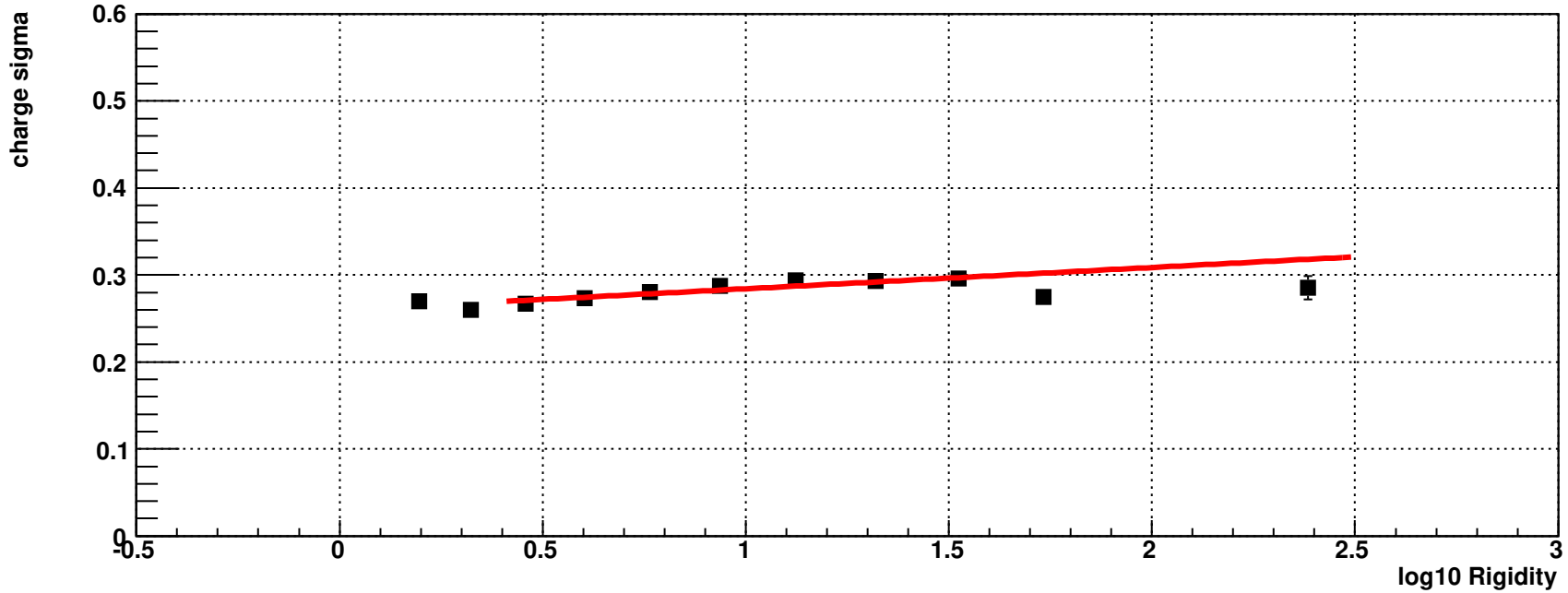

1_rig_charge_pre11_4
1_rig_charge_pre11_4_py_10
Entries 973
Mean 6.015
χ² / ndf 35.85 / 46
Constant 34.1 ± 1.5
Mean 6.031 ± 0.010
Sigma 0.2744 ± 0.0089
charge

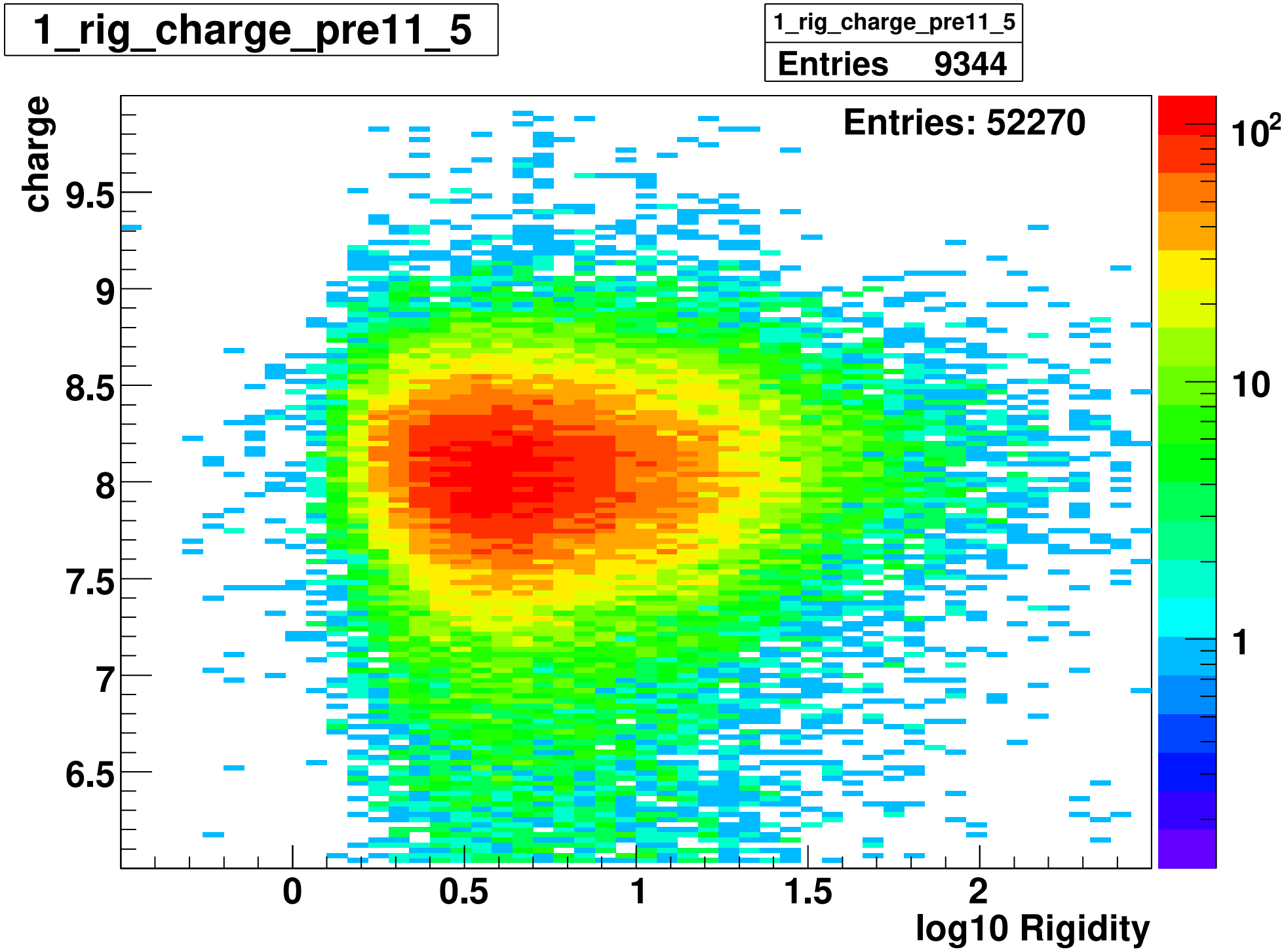

1_rig_charge_pre11_4
1_rig_charge_pre11_4_py_11
Entries 637
Mean 6.032
χ² / ndf 70.84 / 45
Constant 19.97 ± 1.19
Mean 6.045 ± 0.014
Sigma 0.2853 ± 0.0135
charge

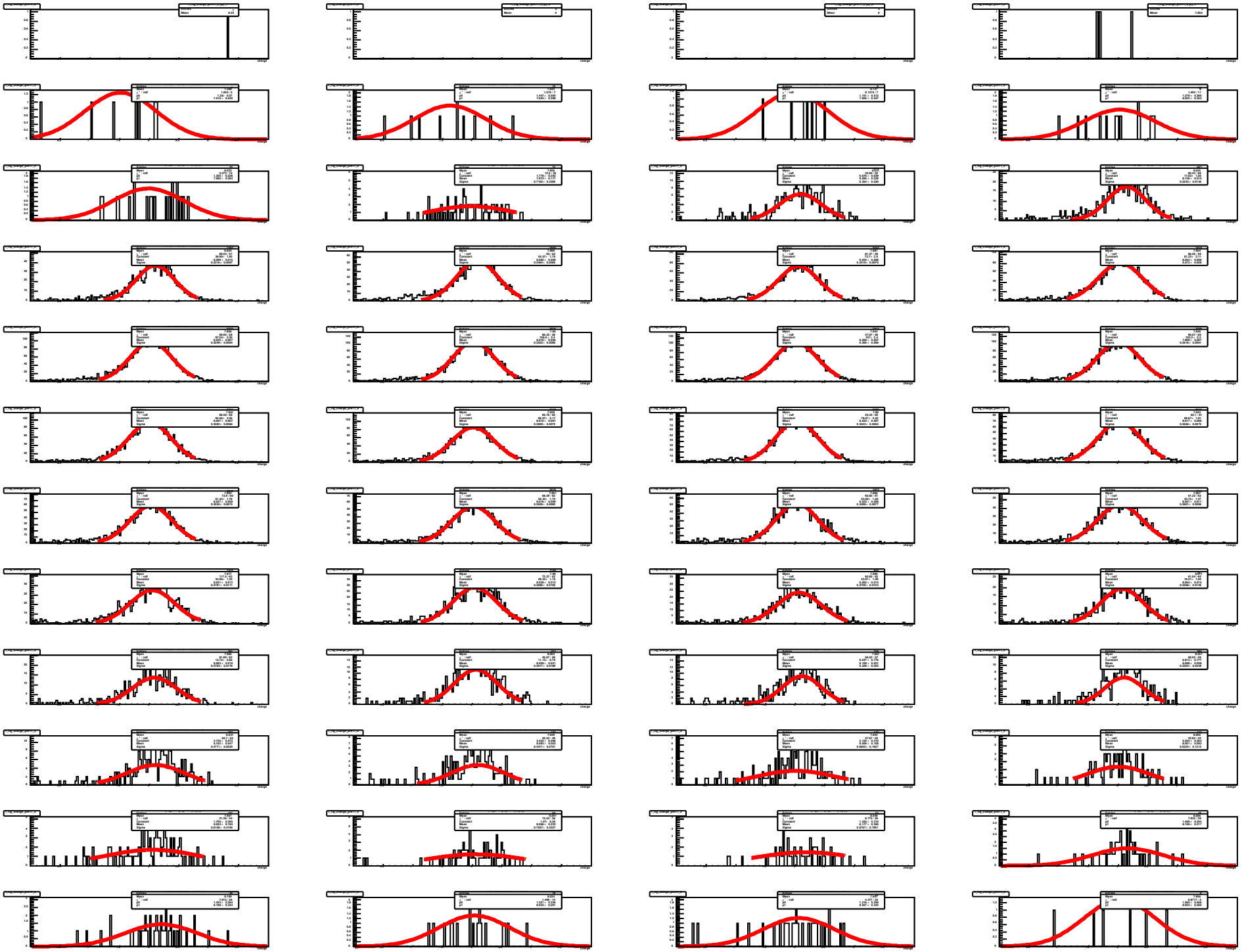
1_rig_charge_pre11_4 Carbon



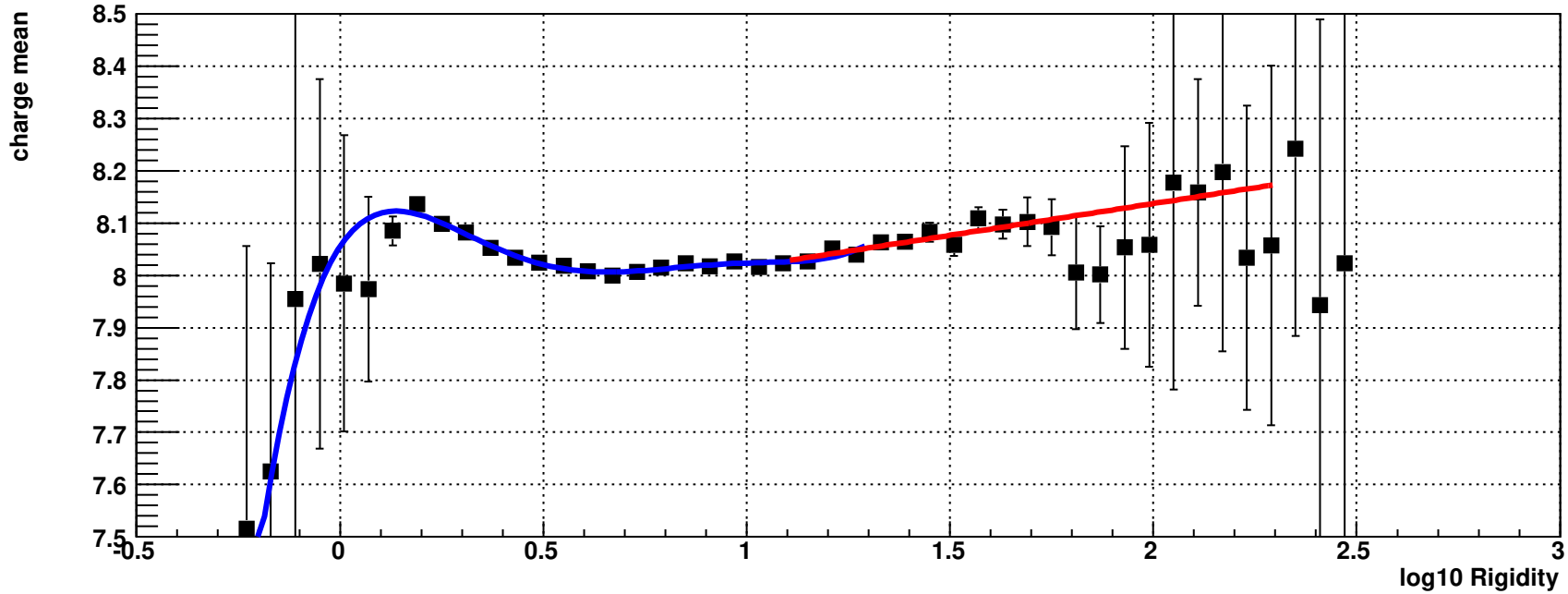
1_rig_charge_pre11_4 Carbon



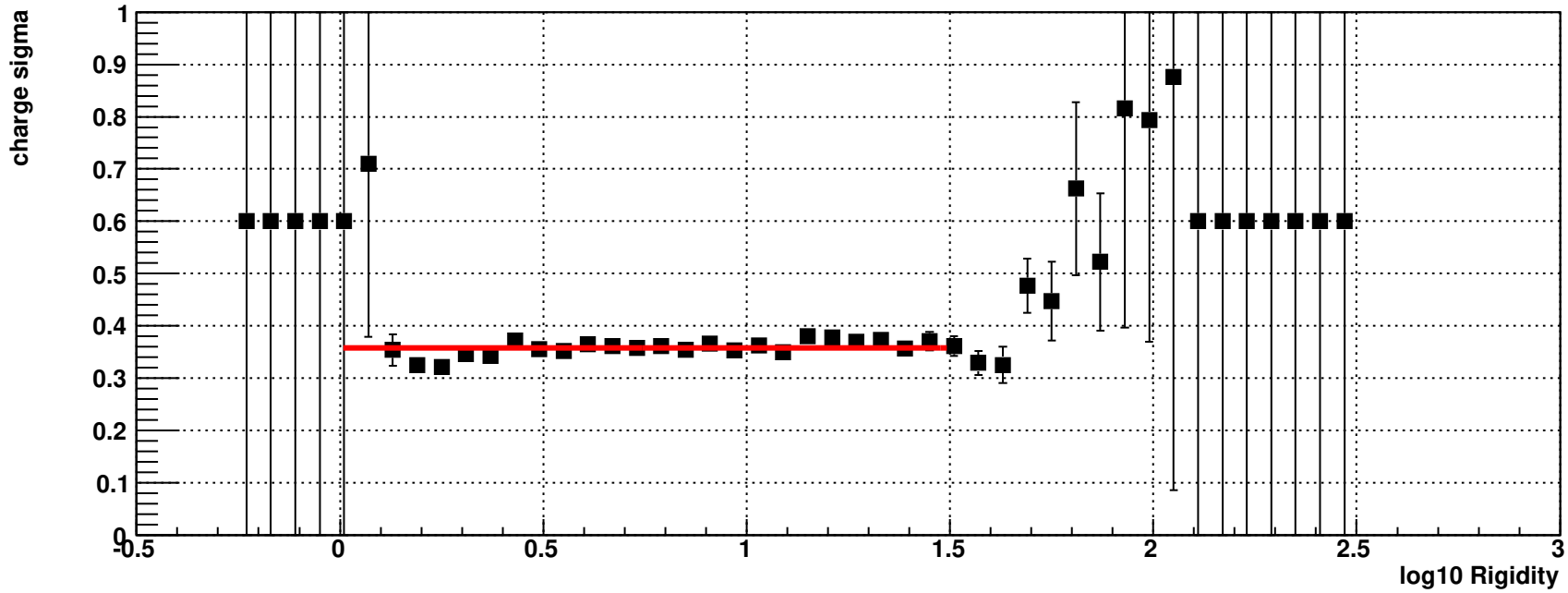

1_rig_charge_pre11_5
1_rig_charge_pre11_5
Entries 9344
Entries: 52270
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

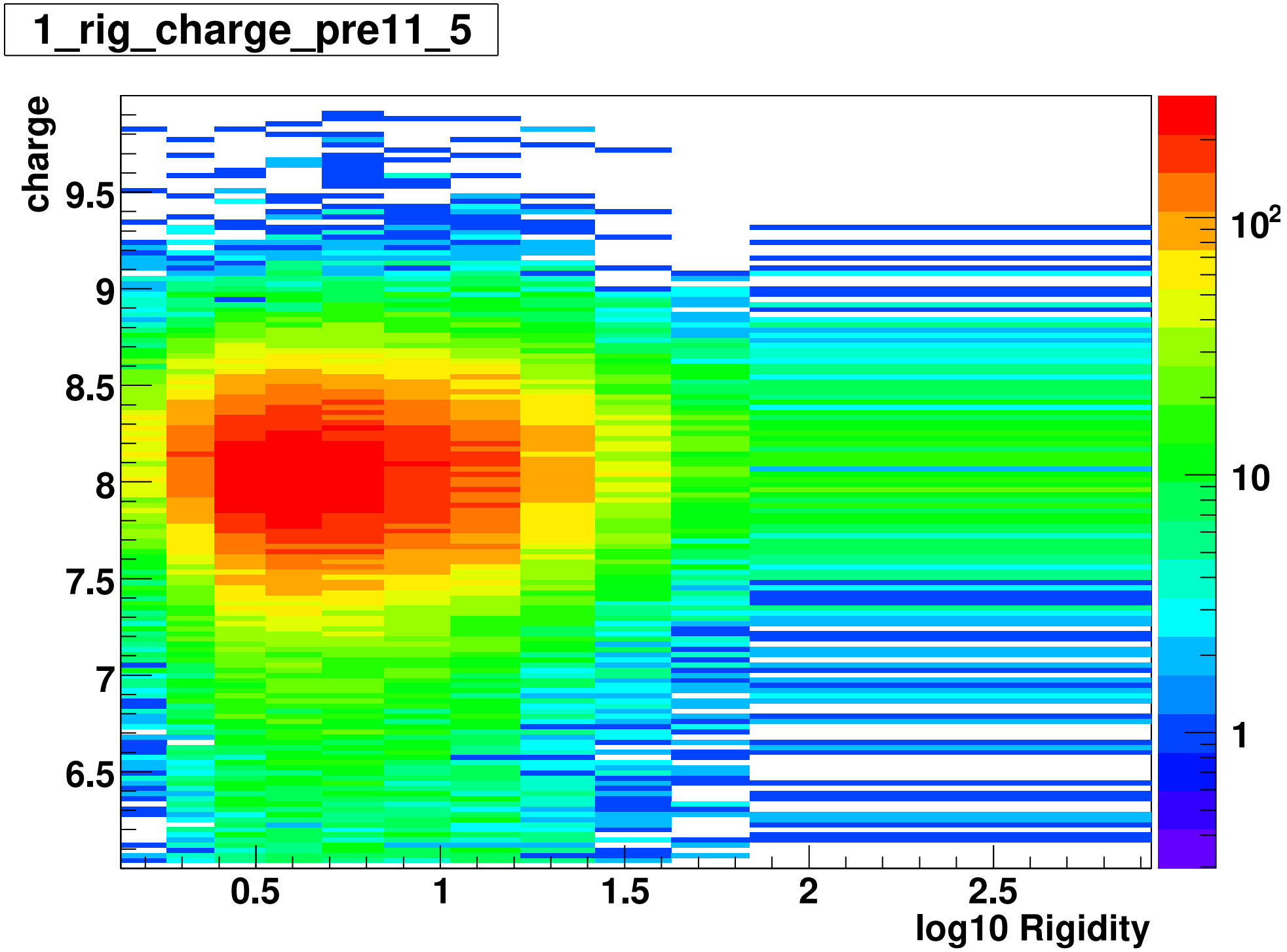


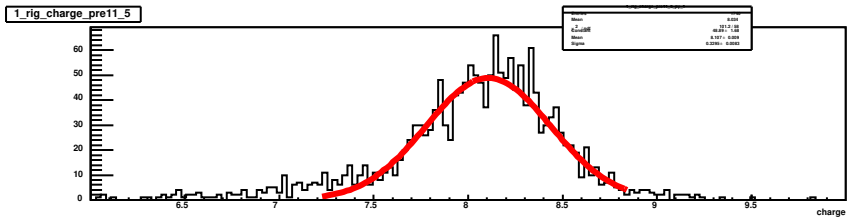
1_rig_charge_pre11_5_py_50

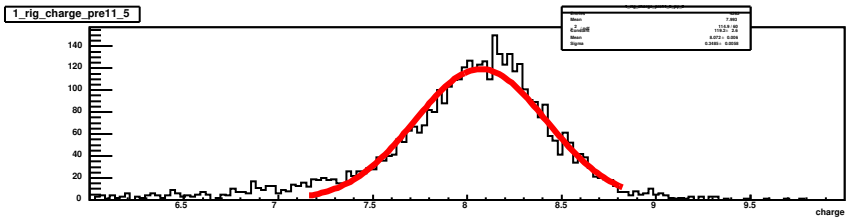


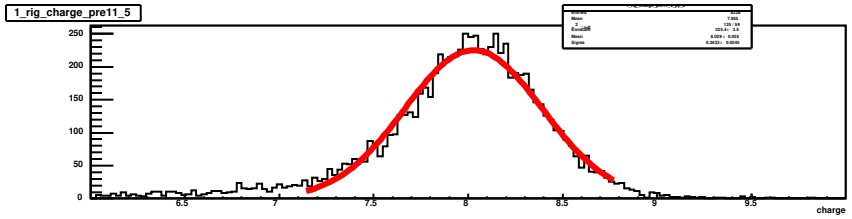
1_rig_charge_pre11_5_py_50

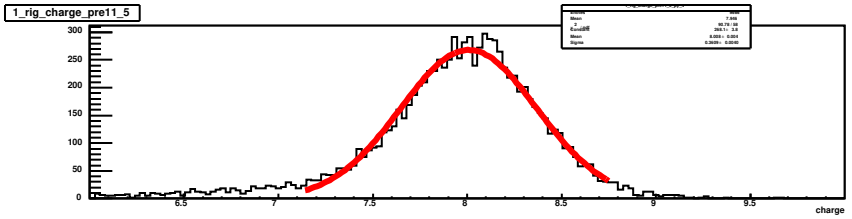


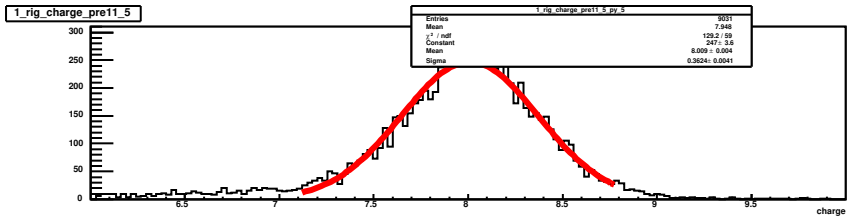

1_rig_charge_pre11_5
charge
9.5
9
8.5
8
7.5
7
6.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

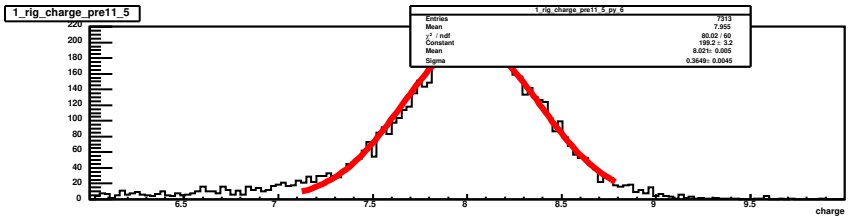

1_rig_charge_pre11_5
charge

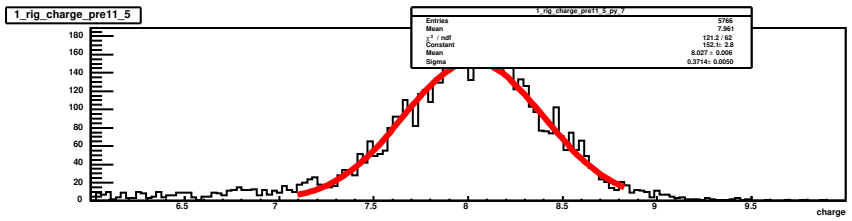

1_rig_charge_pre11_5
charge

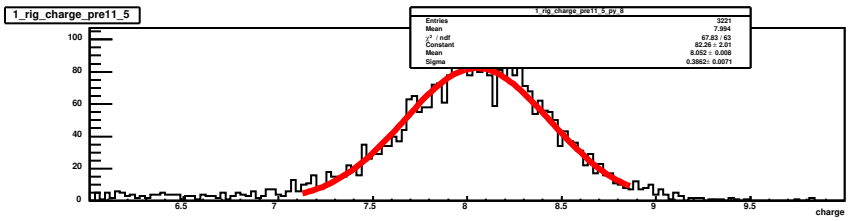

1_rig_charge_pre11_5
charge

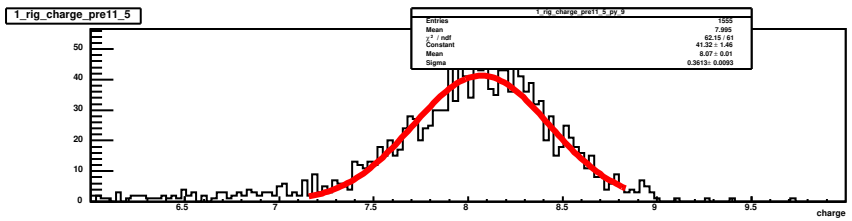

1_rig_charge_pre11_5
charge

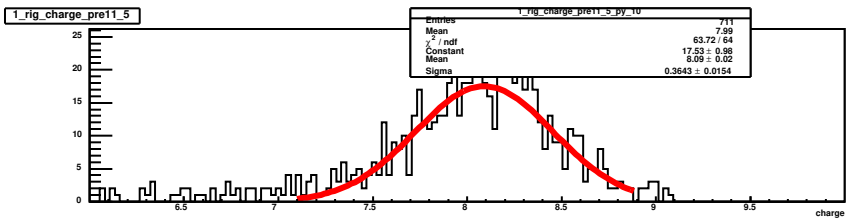

1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_5
Entries 9031
Mean 7.948
χ² / ndf 129.2 / 59
Constant 247 ± 3.6
Mean 8.009 ± 0.004
Sigma 0.3624 ± 0.0041
charge

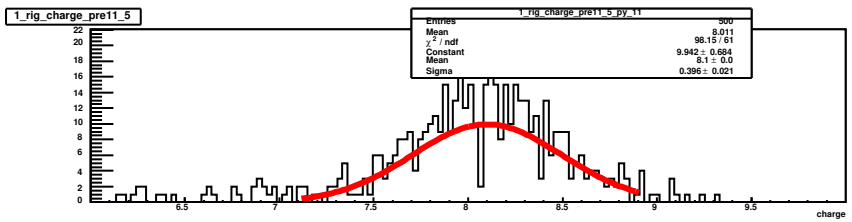

1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_6
Entries 7313
Mean 7.955
χ² / ndf 80.02 / 60
Constant 199.2 ± 3.2
Mean 8.021 ± 0.005
Sigma 0.3649 ± 0.0045
charge


1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_7
Entries 5766
Mean 7.961
χ² / ndf 121.2 / 62
Constant 152.1 ± 2.8
Mean 8.027 ± 0.006
Sigma 0.3714 ± 0.0050
charge

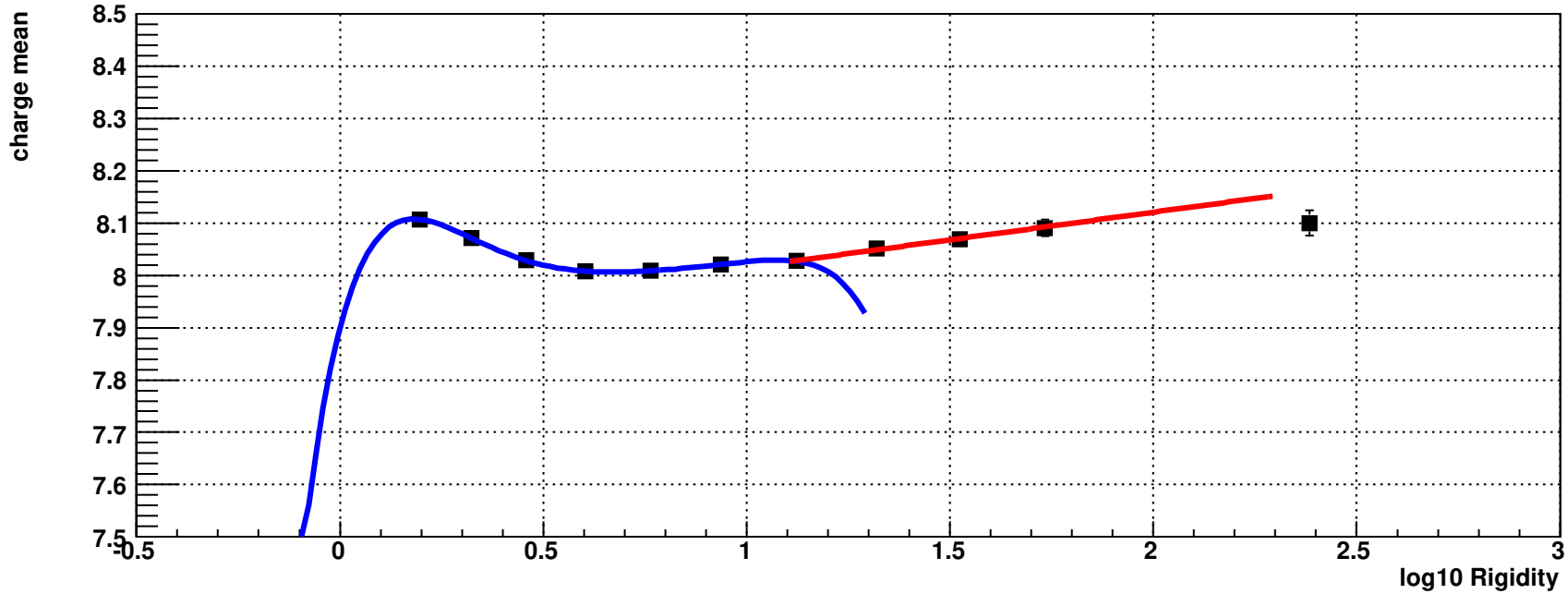

1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_8
Entries 3221
Mean 7.994
χ² / ndf 67.83 / 63
Constant 82.26 ± 2.01
Mean 8.052 ± 0.008
Sigma 0.3862 ± 0.0071
charge


1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_9
Entries 1555
Mean 7.995
χ² / ndf 62.15 / 61
Constant 41.32 ± 1.46
Mean 8.07 ± 0.01
Sigma 0.3613 ± 0.0093
charge

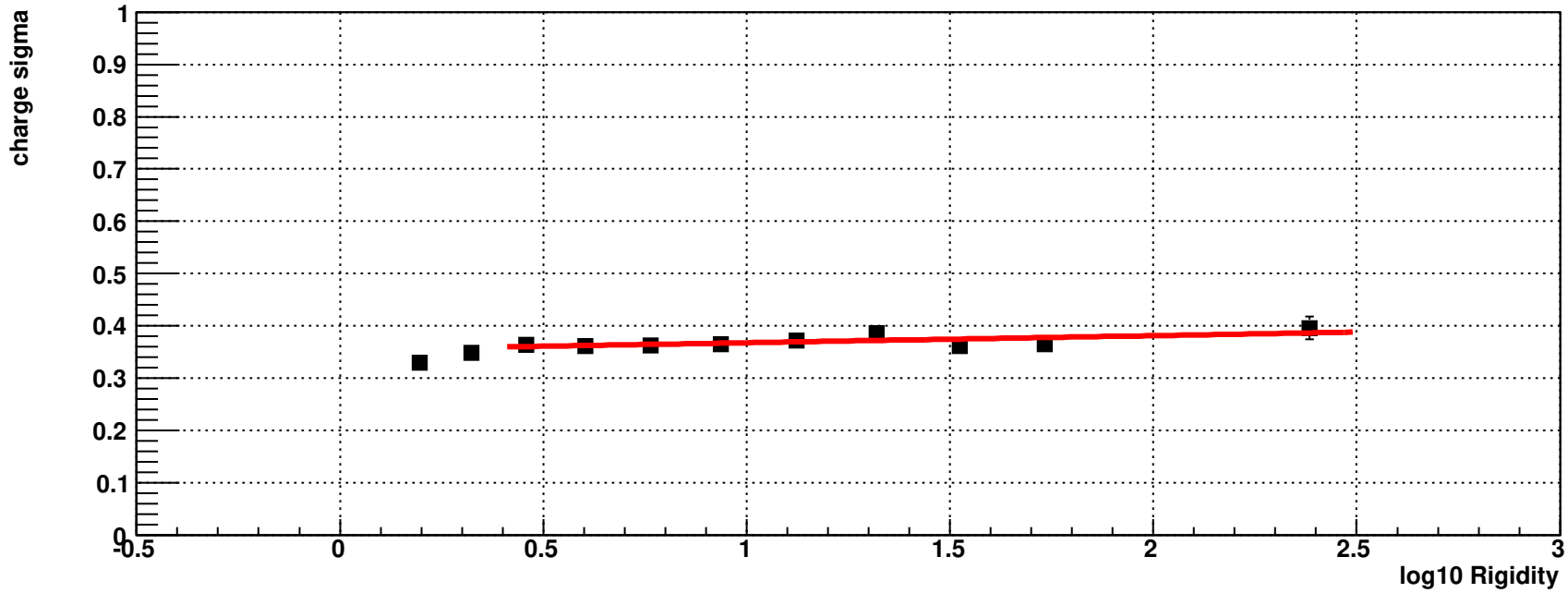

1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_10
Entries 711
Mean 7.99
χ² / ndf 63.72 / 64
Constant 17.53 ± 0.98
Mean 8.09 ± 0.02
Sigma 0.3643 ± 0.0154
charge

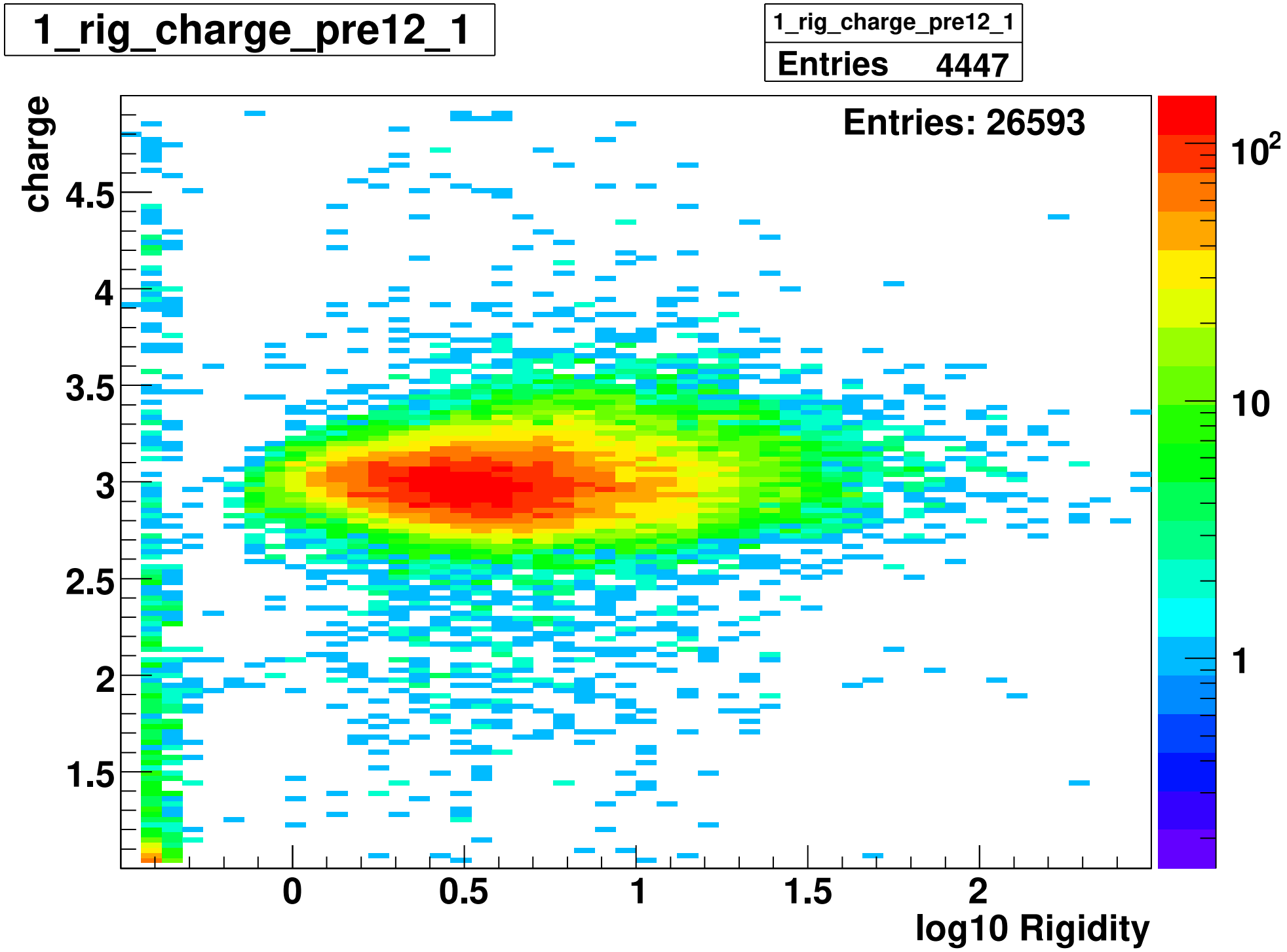

1_rig_charge_pre11_5
1_rig_charge_pre11_5_py_11
Entries 500
Mean 8.011
χ² / ndf 98.15 / 61
Constant 9.942 ± 0.684
Mean 8.1 ± 0.0
Sigma 0.396 ± 0.021
charge

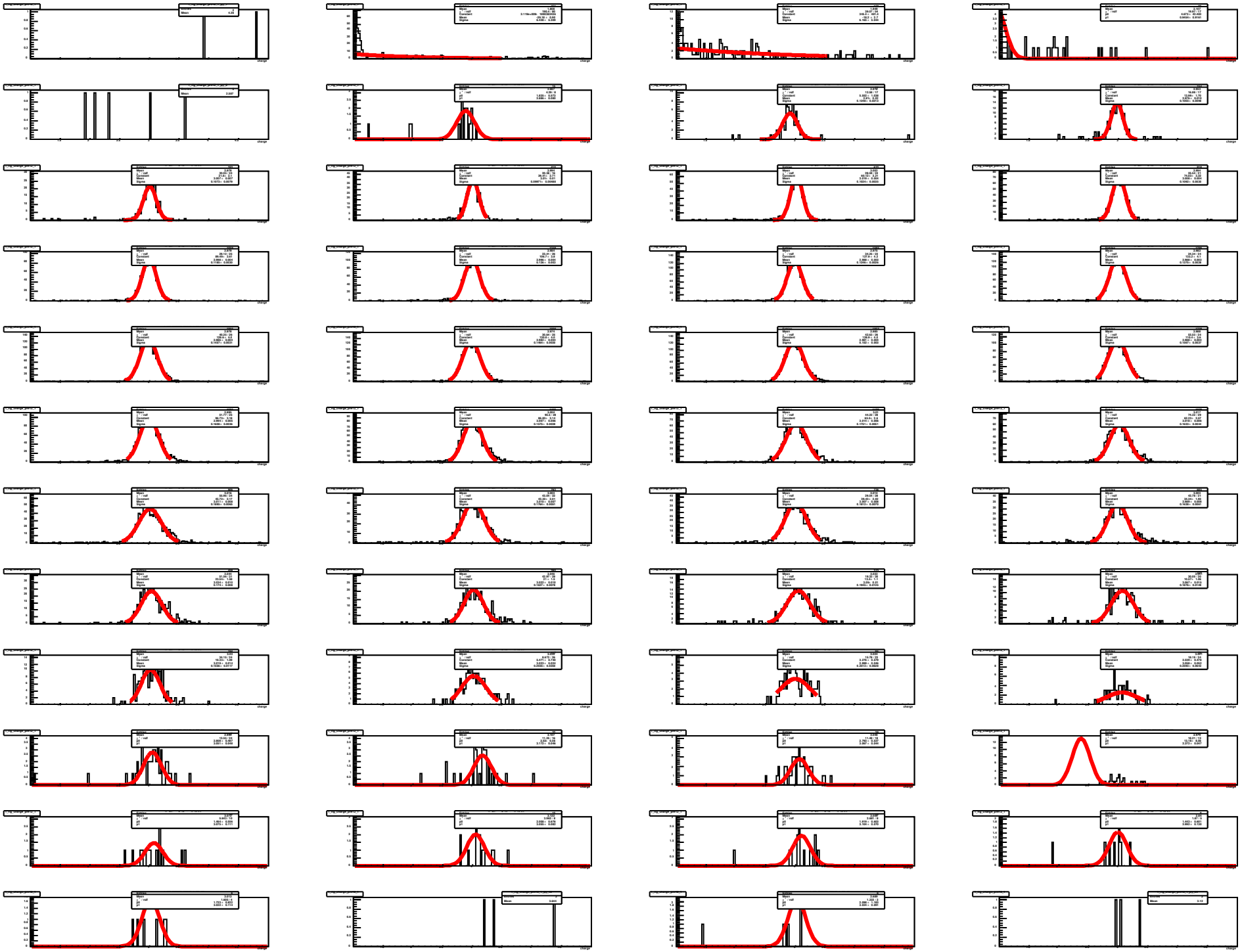
1_rig_charge_pre11_5_py_11



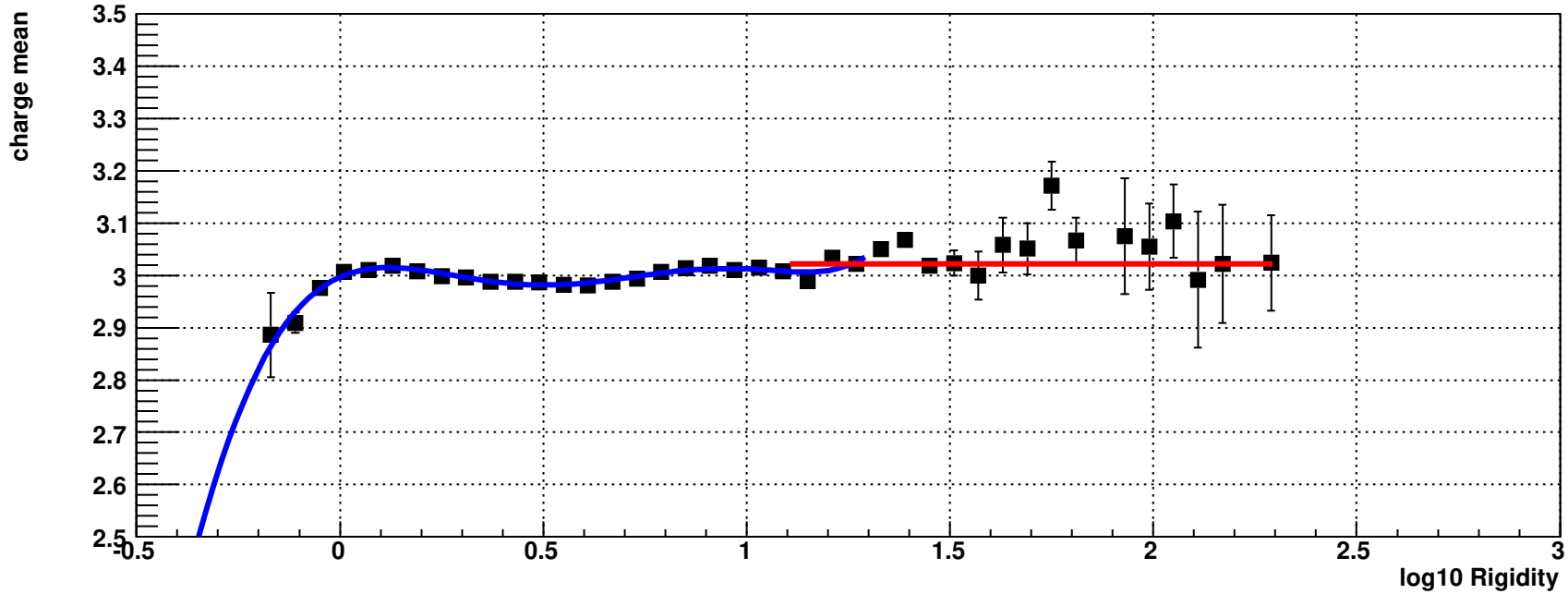
1_rig_charge_pre11_5_py_11



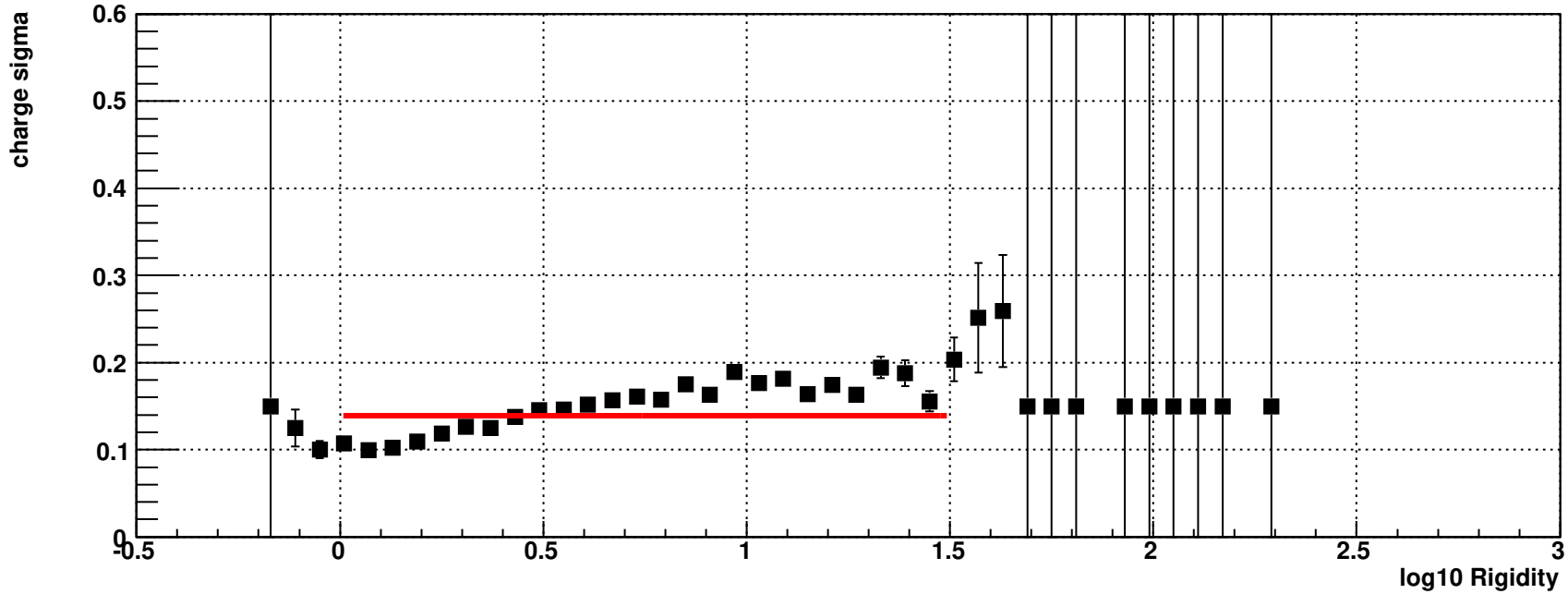

1_rig_charge_pre12_1
1_rig_charge_pre12_1
Entries 4447
Entries: 26593
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

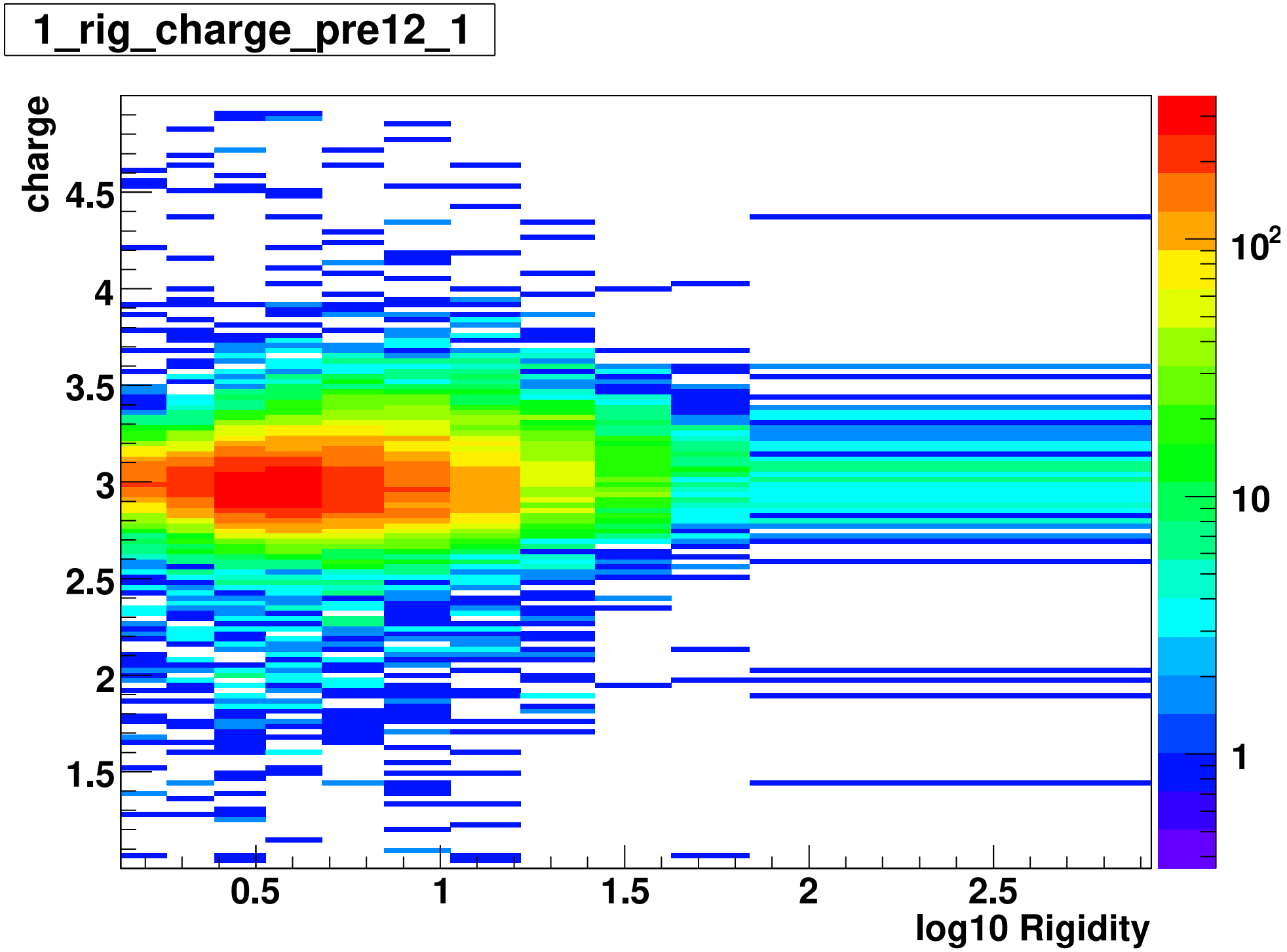


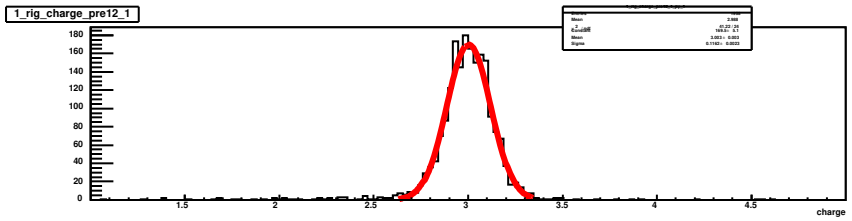
1_rig_charge_pre12_1 Lithium

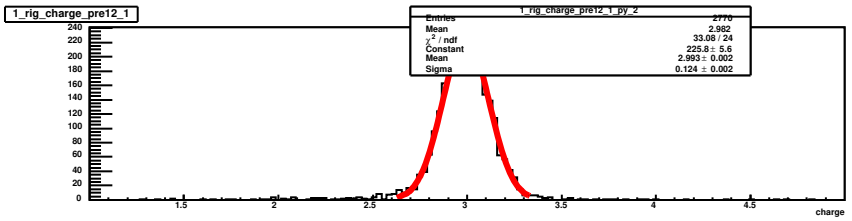


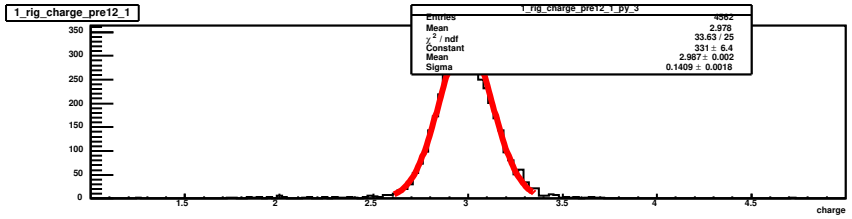
1_rig_charge_pre12_1 Lithium

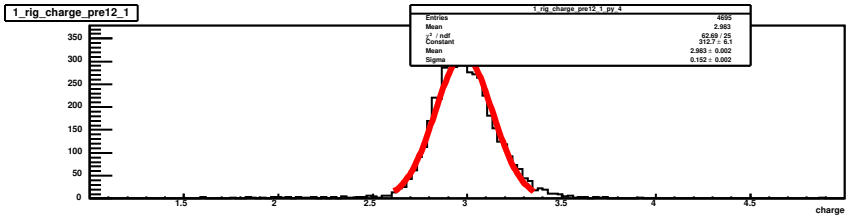


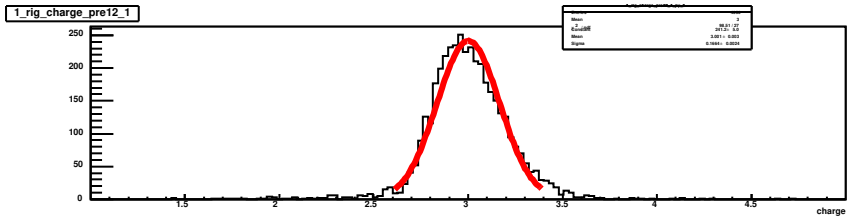

1_rig_charge_pre12_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

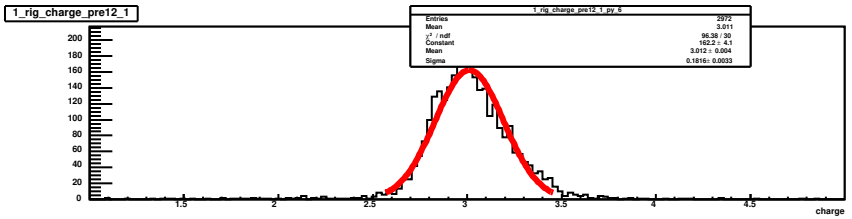

1_rig_charge_pre12_1
charge

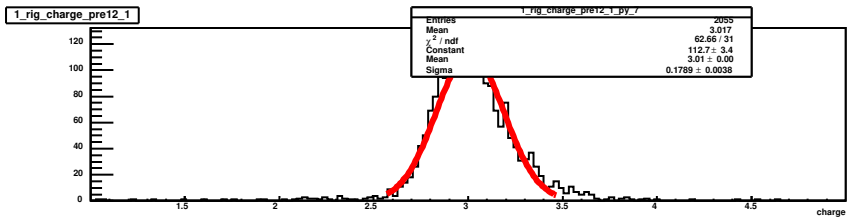

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_2
Entries 2770
Mean 2.992
χ² / ndf 33.08 / 24
Constant 225.8 ± 5.6
Mean 2.993 ± 0.002
Sigma 0.124 ± 0.002
charge

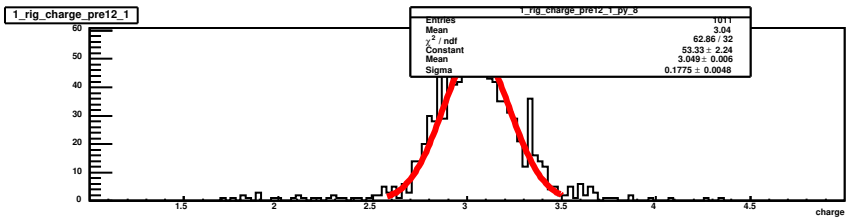

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_3
Entries 4382
Mean 2.978
χ² / ndf 33.63 / 25
Constant 331 ± 6.4
Mean 2.987 ± 0.002
Sigma 0.1409 ± 0.0018
charge

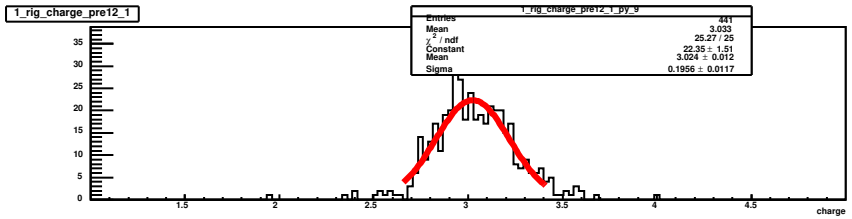

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_4
Entries 4695
Mean 2.983
χ² / ndf 62.69 / 25
Constant 312.7 ± 6.1
Mean 2.983 ± 0.002
Sigma 0.152 ± 0.002
charge

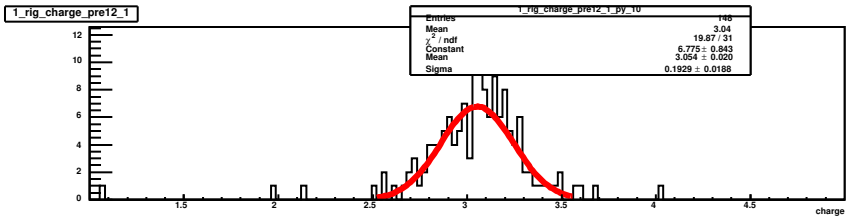

1_rig_charge_pre12_1
charge

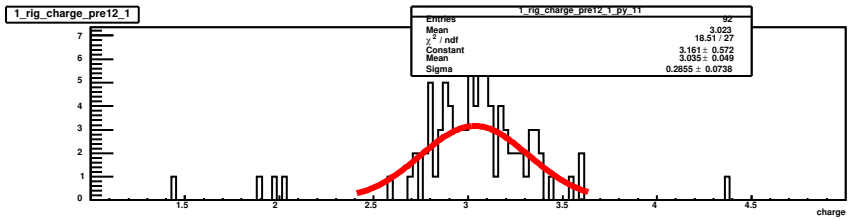

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_6
Entries 2972
Mean 3.011
χ² / ndf 96.38 / 30
Constant 162.2 ± 4.1
Mean 3.012 ± 0.004
Sigma 0.1816 ± 0.0033
charge


1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_7
Entries 2055
Mean 3.017
χ² / ndf 62.66 / 31
Constant 112.7 ± 3.4
Mean 3.01 ± 0.00
Sigma 0.1789 ± 0.0038
charge

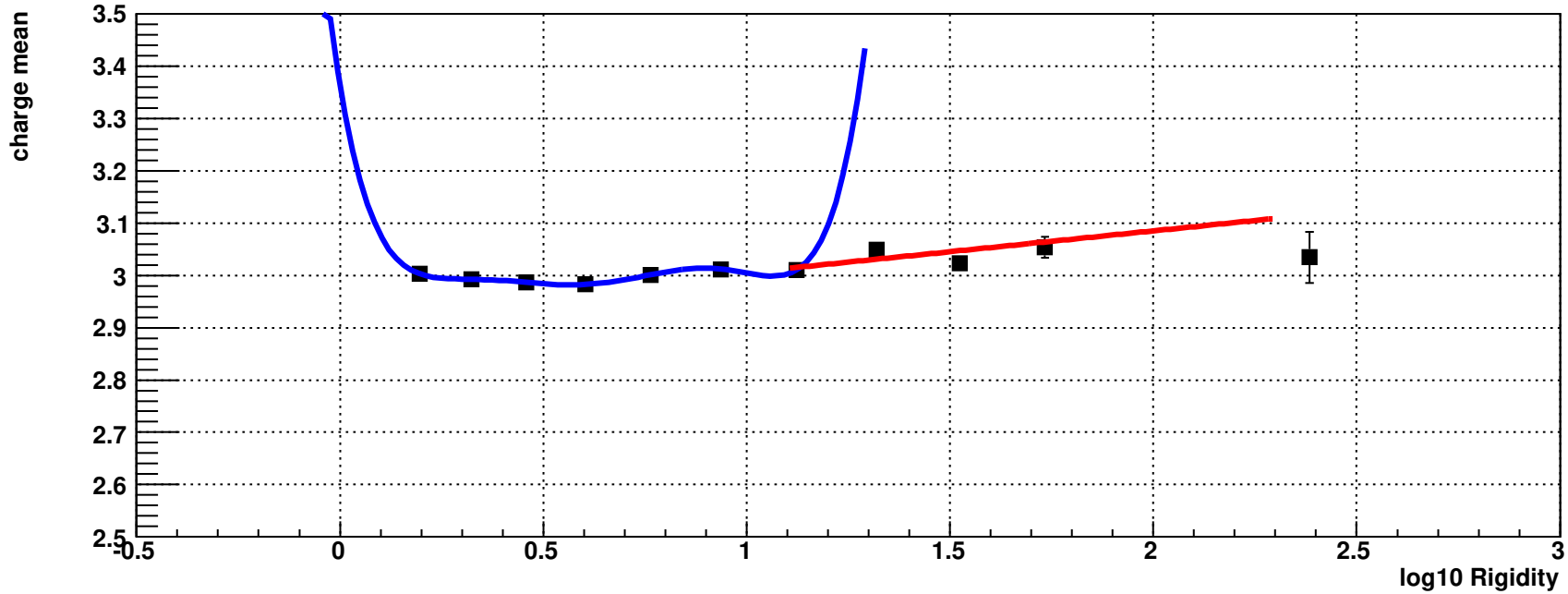

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_8
Entries 1011
Mean 3.04
χ² / ndf 62.86 / 32
Constant 53.33 ± 2.24
Mean 3.049 ± 0.006
Sigma 0.1775 ± 0.0048
charge


1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_9
Entries 441
Mean 3.033
χ² / ndf 25.27 / 25
Constant 22.35 ± 1.51
Mean 3.024 ± 0.012
Sigma 0.1956 ± 0.0117
charge

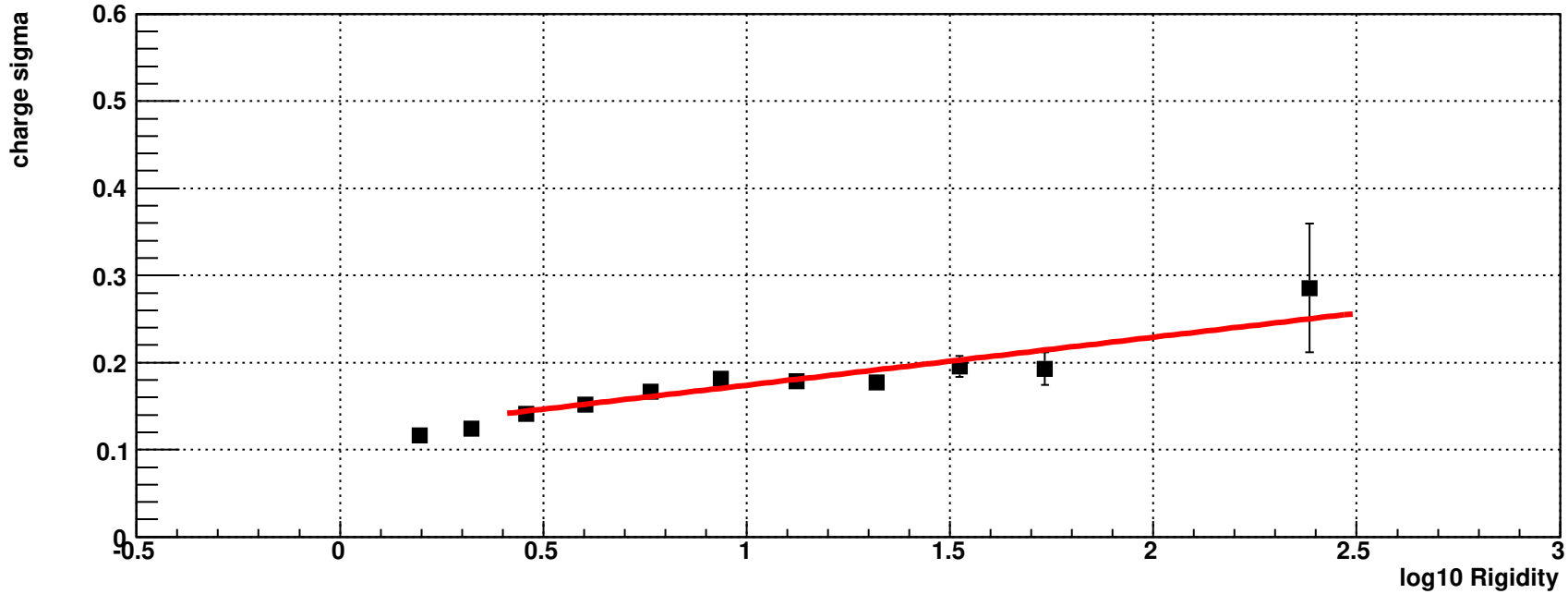

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_10
Entries 148
Mean 3.04
χ² / ndf 19.87 / 31
Constant 6.775 ± 0.843
Mean 3.054 ± 0.020
Sigma 0.1929 ± 0.0188
charge

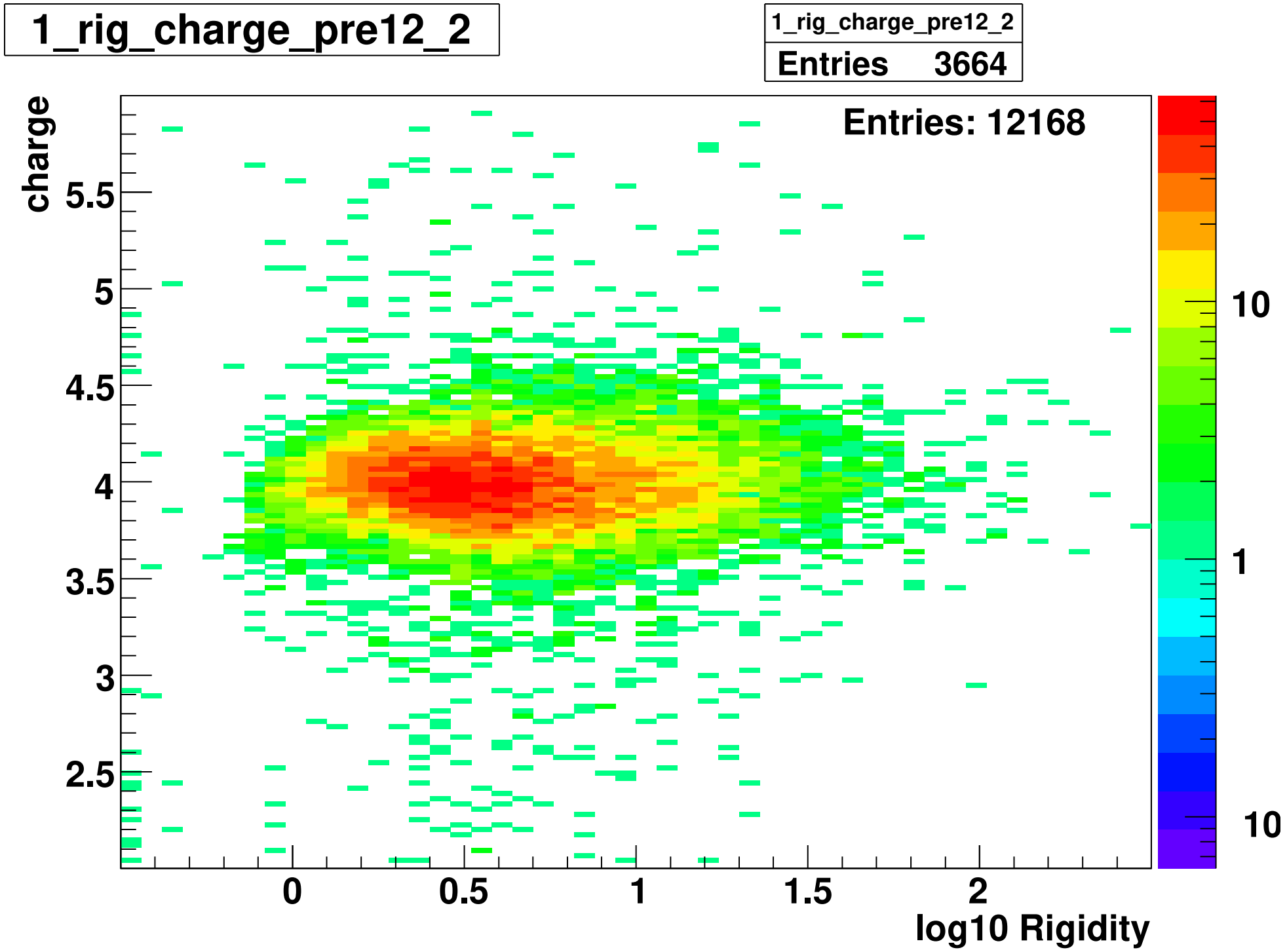

1_rig_charge_pre12_1
1_rig_charge_pre12_1_py_11
Entries 92
Mean 3.023
χ² / ndf 18.51 / 27
Constant 3.161 ± 0.572
Mean 3.035 ± 0.049
Sigma 0.2855 ± 0.0738
charge

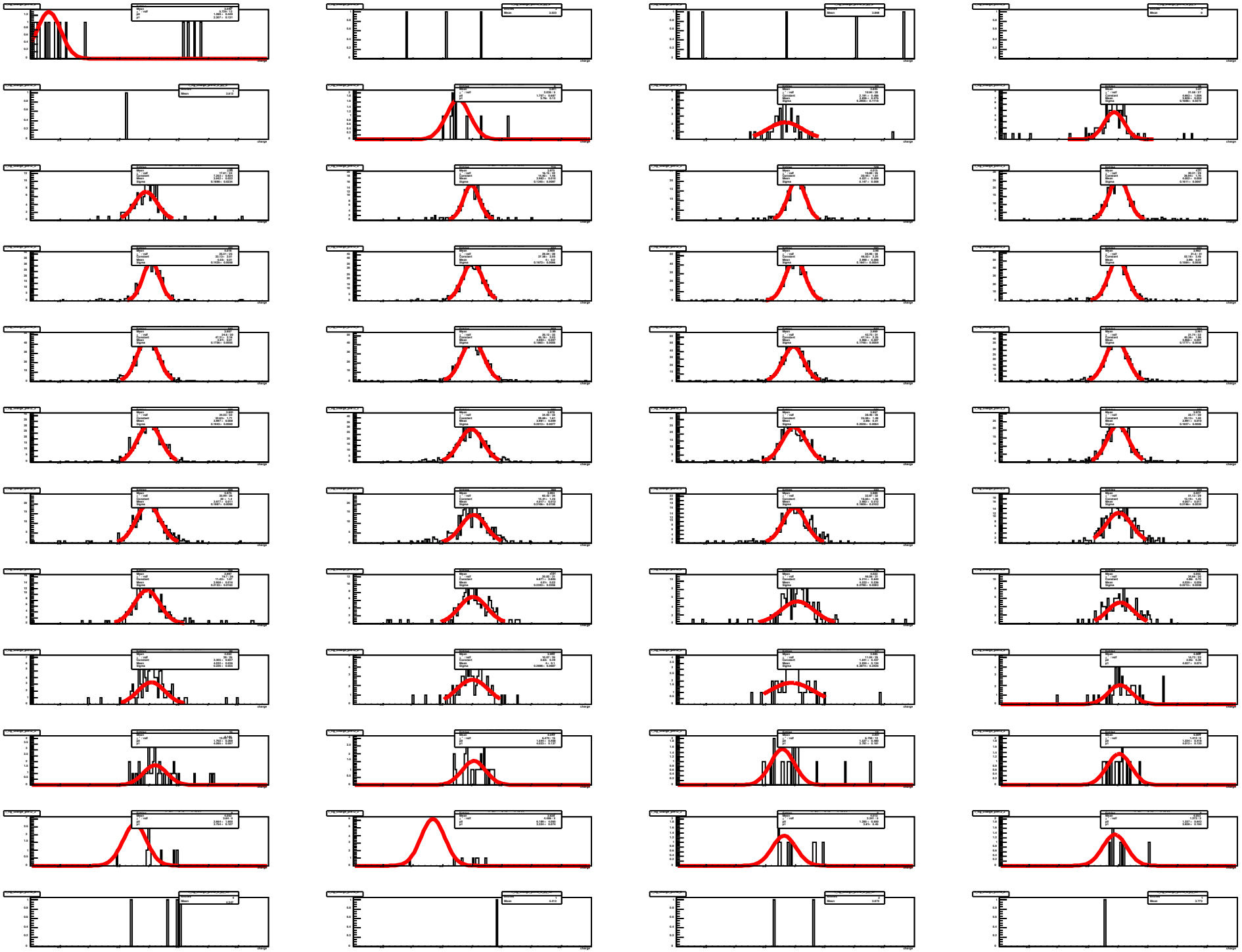
1_rig_charge_pre12_1 Lithium



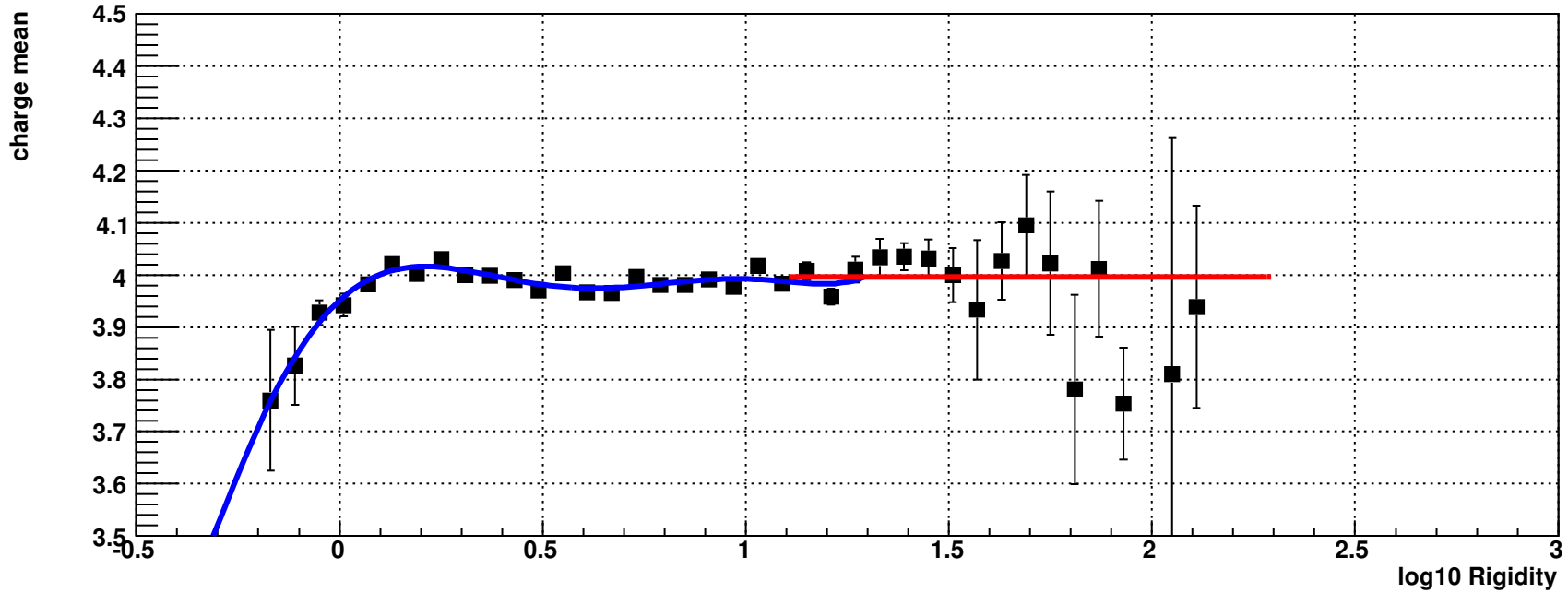
1_rig_charge_pre12_1 Lithium



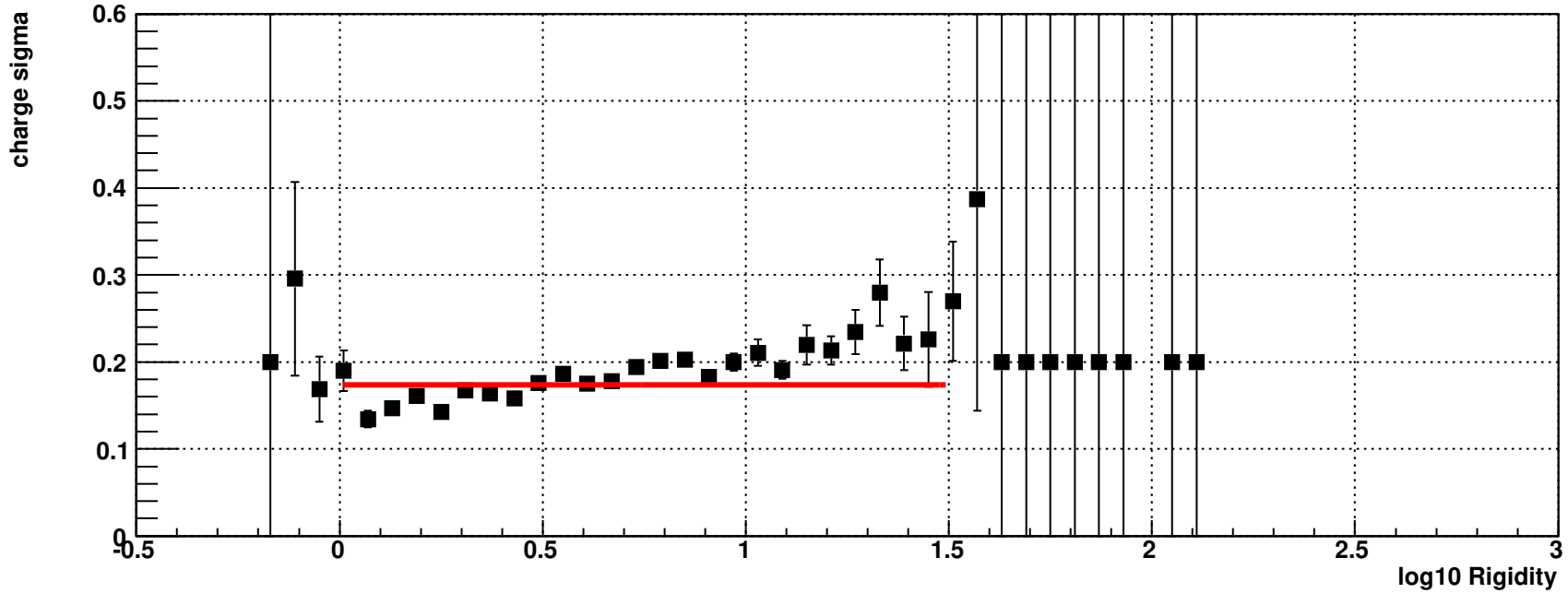

1_rig_charge_pre12_2
1_rig_charge_pre12_2
Entries 3664
Entries: 12168
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

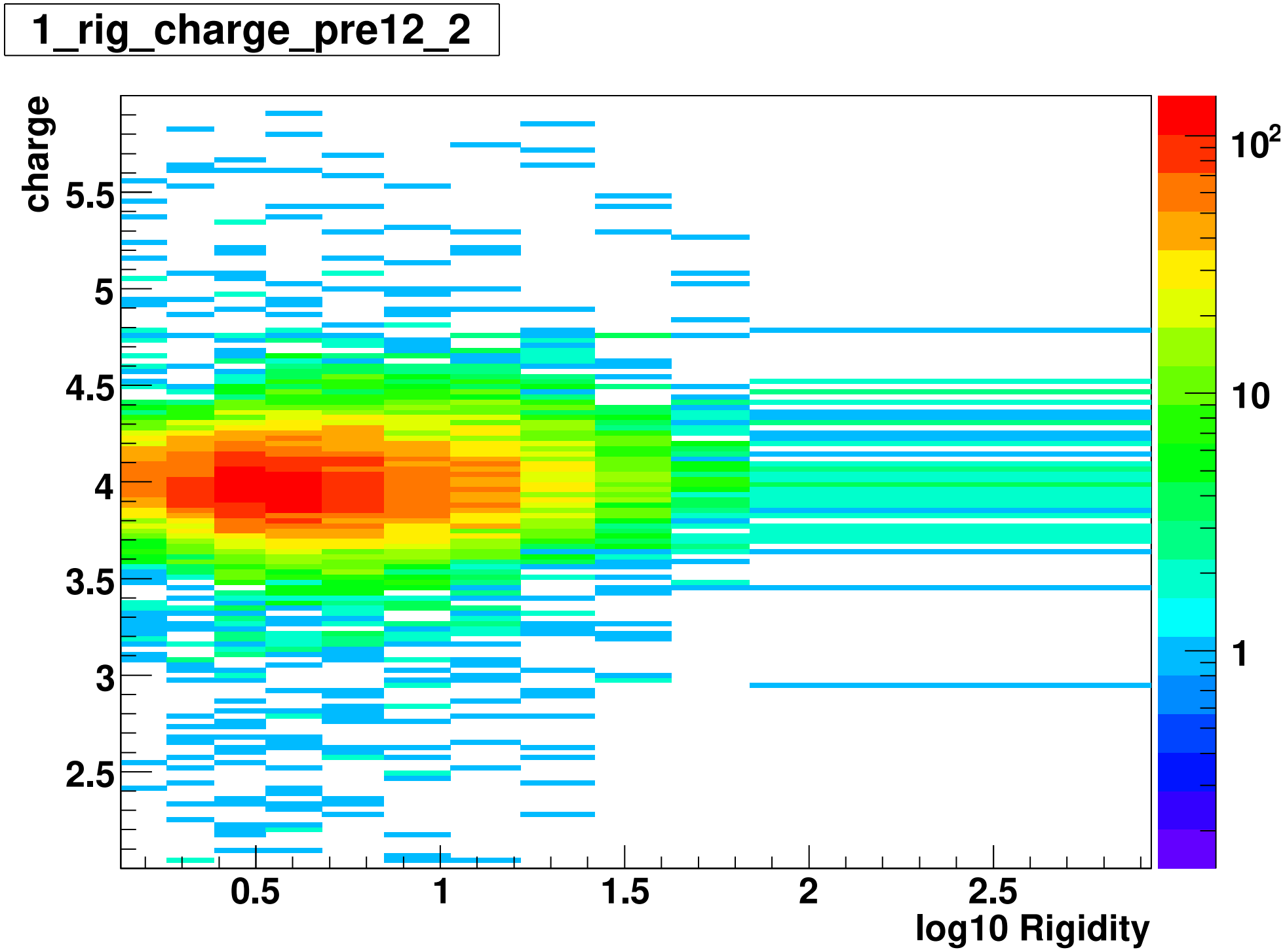


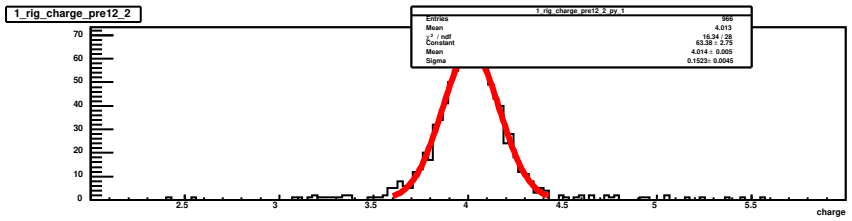
1_rig_charge_pre12_2 Beryllium

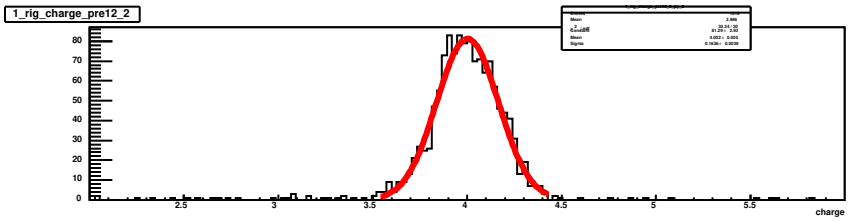


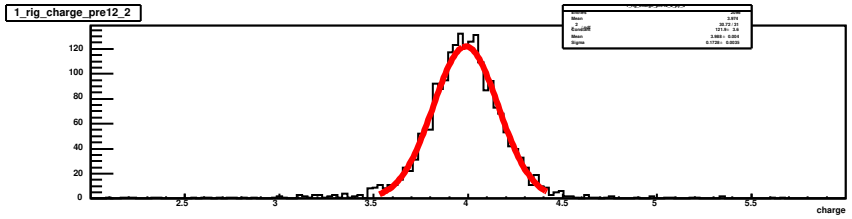
1_rig_charge_pre12_2 Beryllium

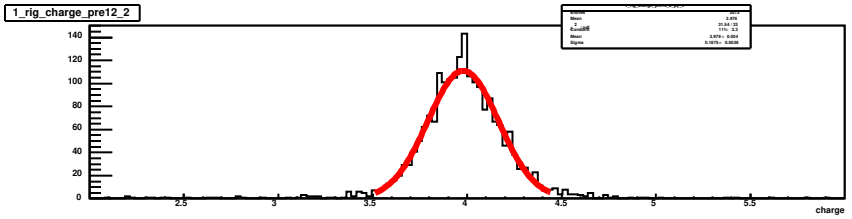


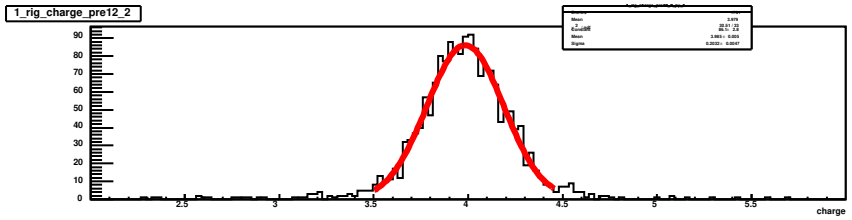

1_rig_charge_pre12_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

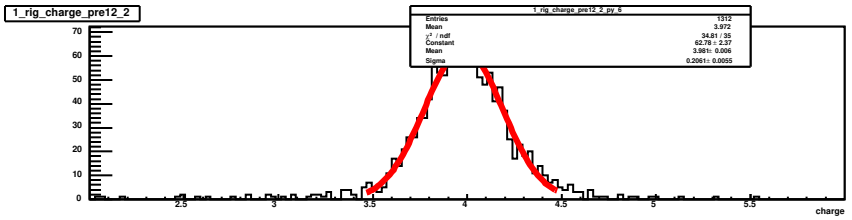

1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_1
Entries 866
Mean 4.013
χ² / ndf 16.34 / 28
Constant 63.38 ± 2.75
Mean 4.014 ± 0.005
Sigma 0.1523 ± 0.0045
charge

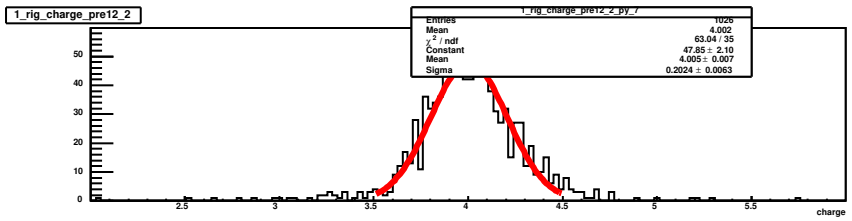

1_rig_charge_pre12_2
charge

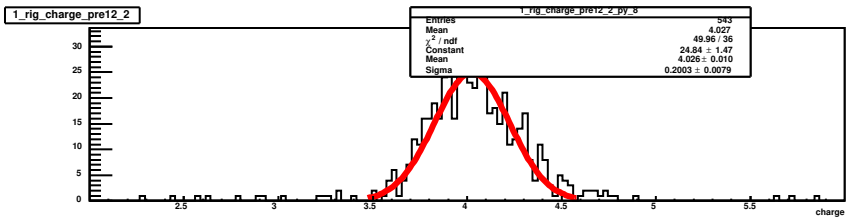

1_rig_charge_pre12_2
charge

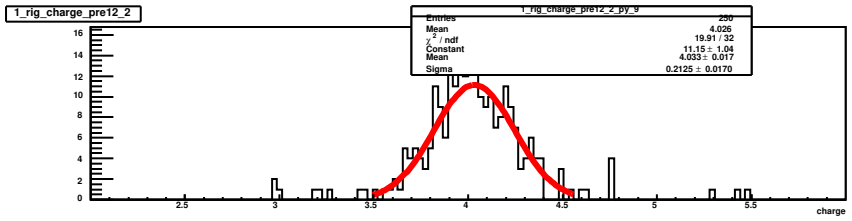

1_rig_charge_pre12_2
charge

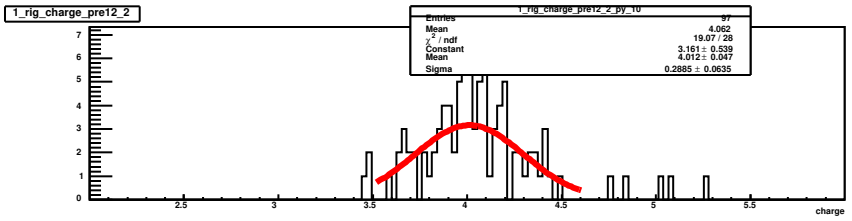

1_rig_charge_pre12_2
charge

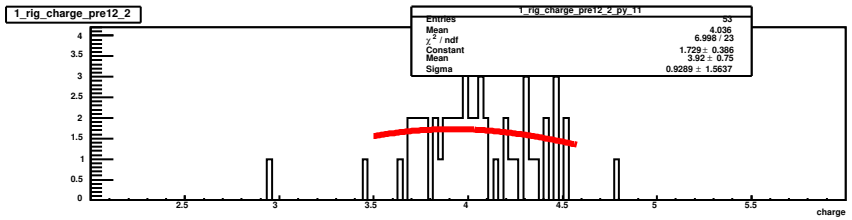

1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_6
Entries 1312
Mean 3.972
χ² / ndf 34.81 / 35
Constant 62.79 ± 2.37
Mean 3.981 ± 0.006
Sigma 0.2061 ± 0.0055
charge


1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_7
Entries 1026
Mean 4.002
χ² / ndf 63.04 / 35
Constant 47.85 ± 2.10
Mean 4.005 ± 0.007
Sigma 0.2024 ± 0.0063
charge

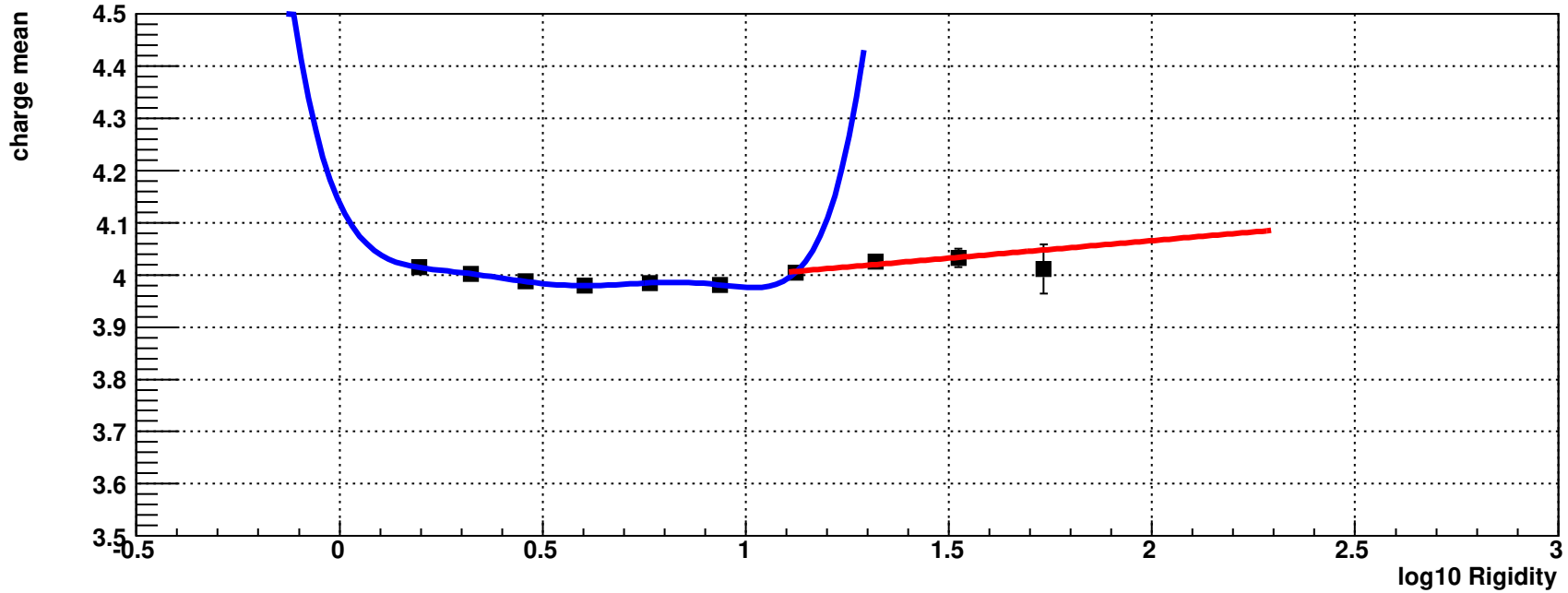

1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_8
Entries 543
Mean 4.027
χ² / ndf 49.96 / 36
Constant 24.84 ± 1.47
Mean 4.026 ± 0.010
Sigma 0.2003 ± 0.0079
charge


1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_9
Entries 290
Mean 4.026
χ² / ndf 19.91 / 32
Constant 11.15 ± 1.04
Mean 4.033 ± 0.017
Sigma 0.2125 ± 0.0170
charge

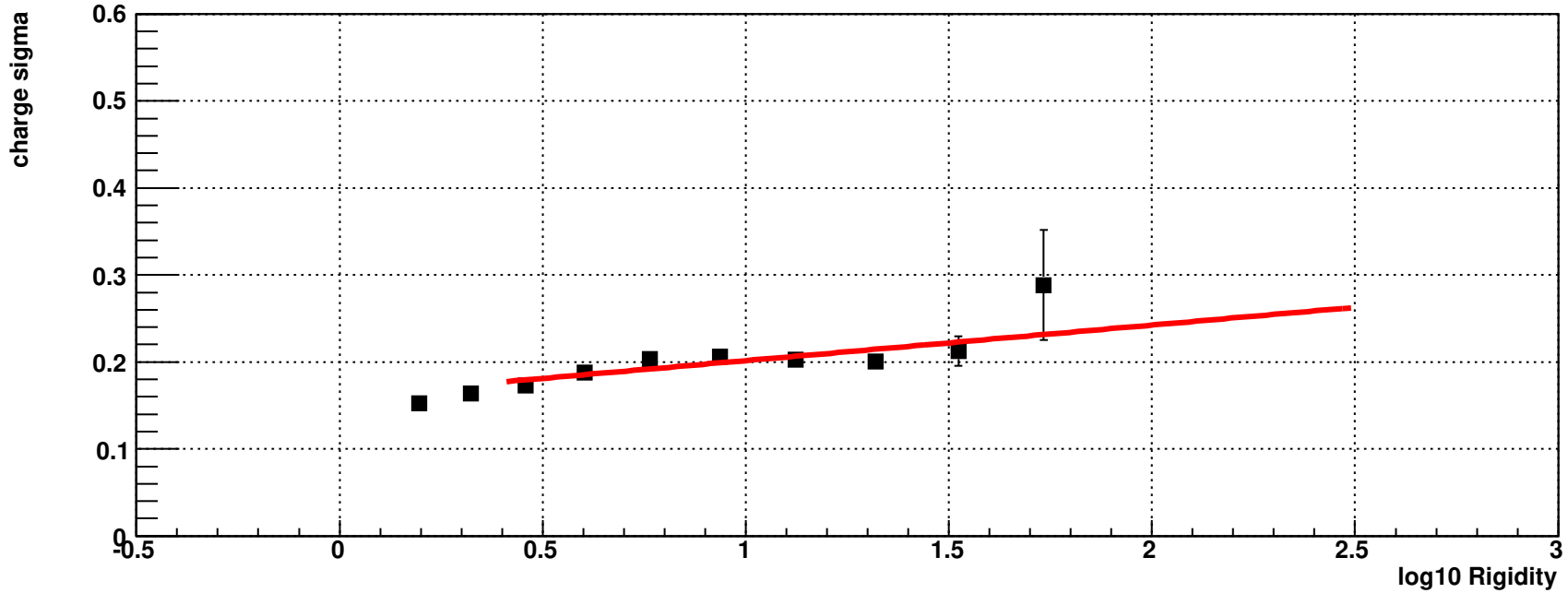

1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_10
Entries 97
Mean 4.062
χ² / ndf 19.07 / 28
Constant 3.161 ± 0.539
Mean 4.012 ± 0.047
Sigma 0.2885 ± 0.0635
charge

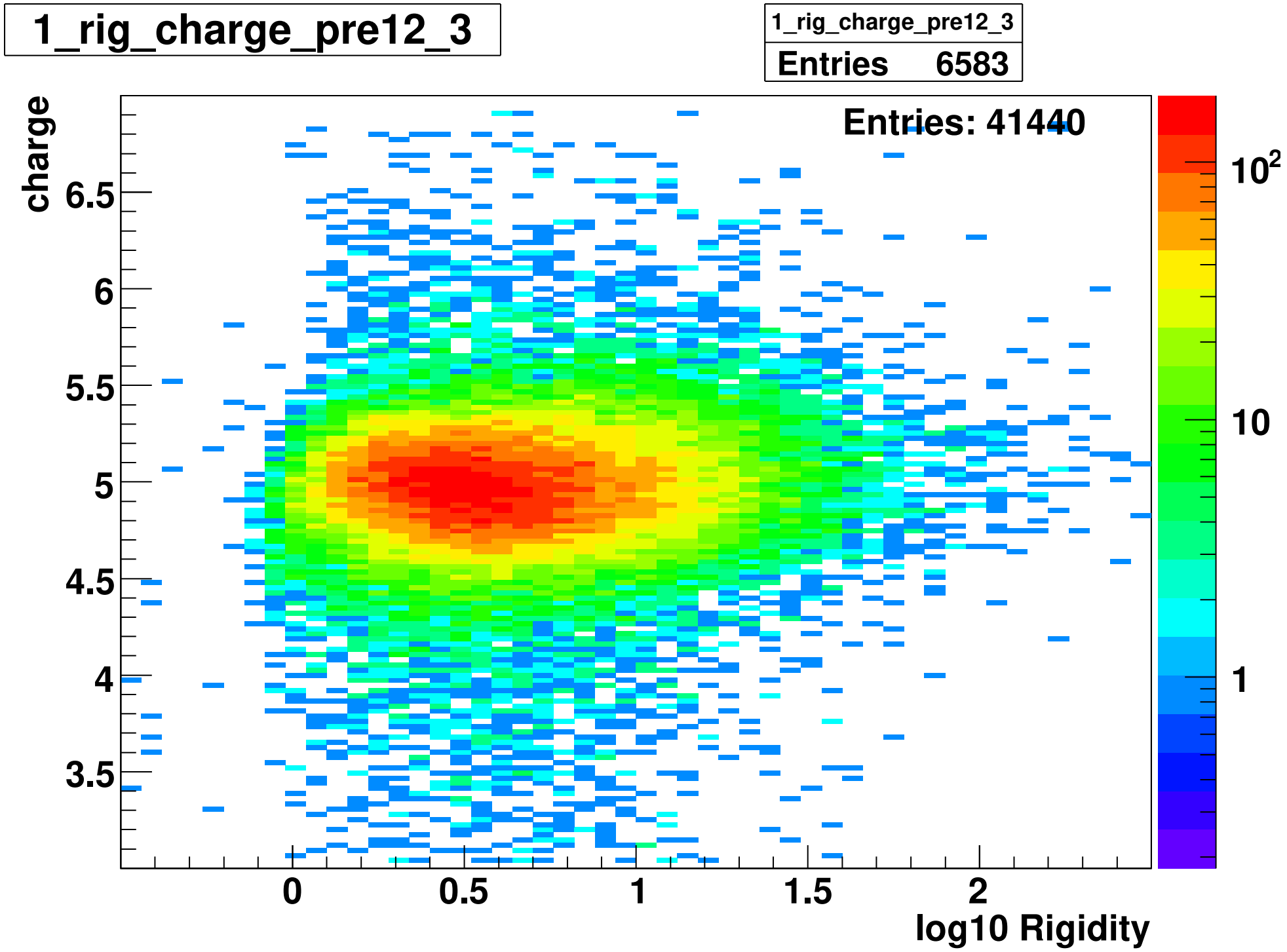

1_rig_charge_pre12_2
1_rig_charge_pre12_2_py_11
Entries 33
Mean 4.036
χ² / ndf 6.998 / 23
Constant 1.729 ± 0.386
Mean 3.92 ± 0.75
Sigma 0.9289 ± 1.5637
charge

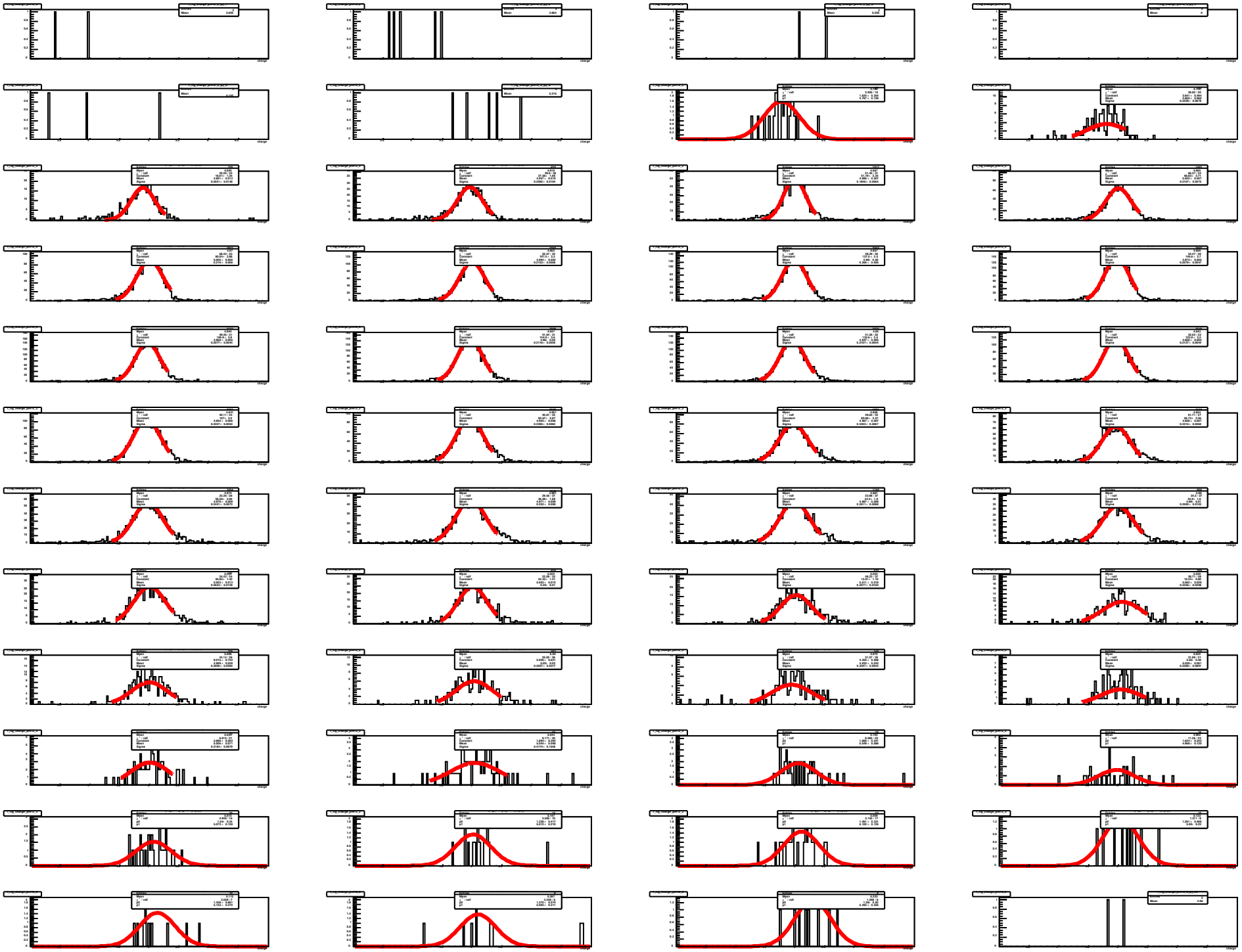
1_rig_charge_pre12_2 Beryllium



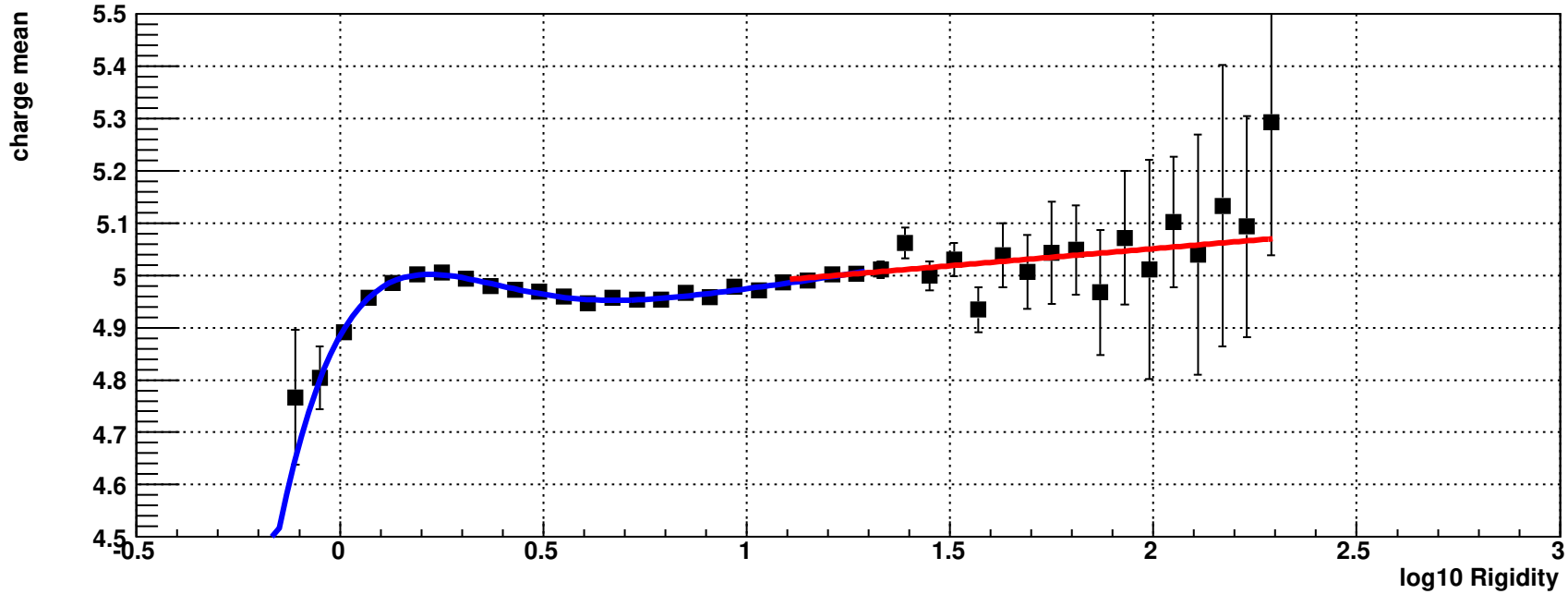
1_rig_charge_pre12_2 Beryllium



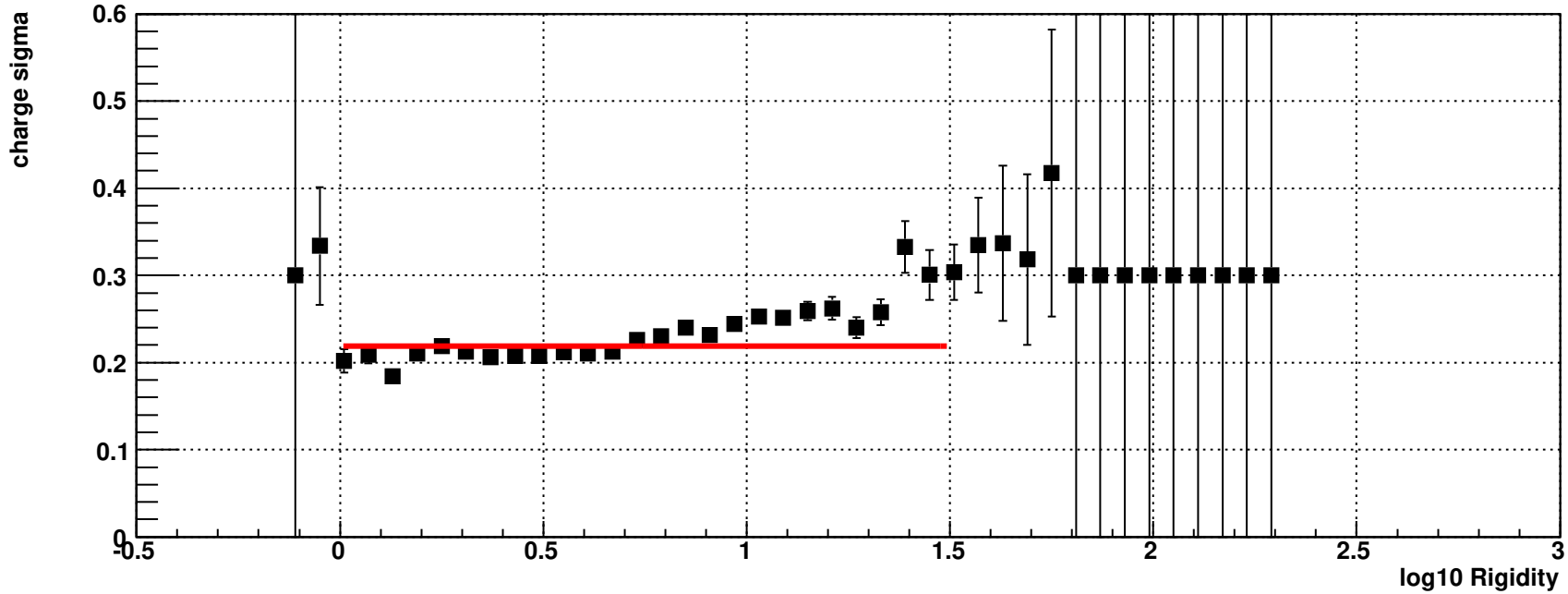

1_rig_charge_pre12_3
1_rig_charge_pre12_3
Entries 6583
Entries: 41440
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



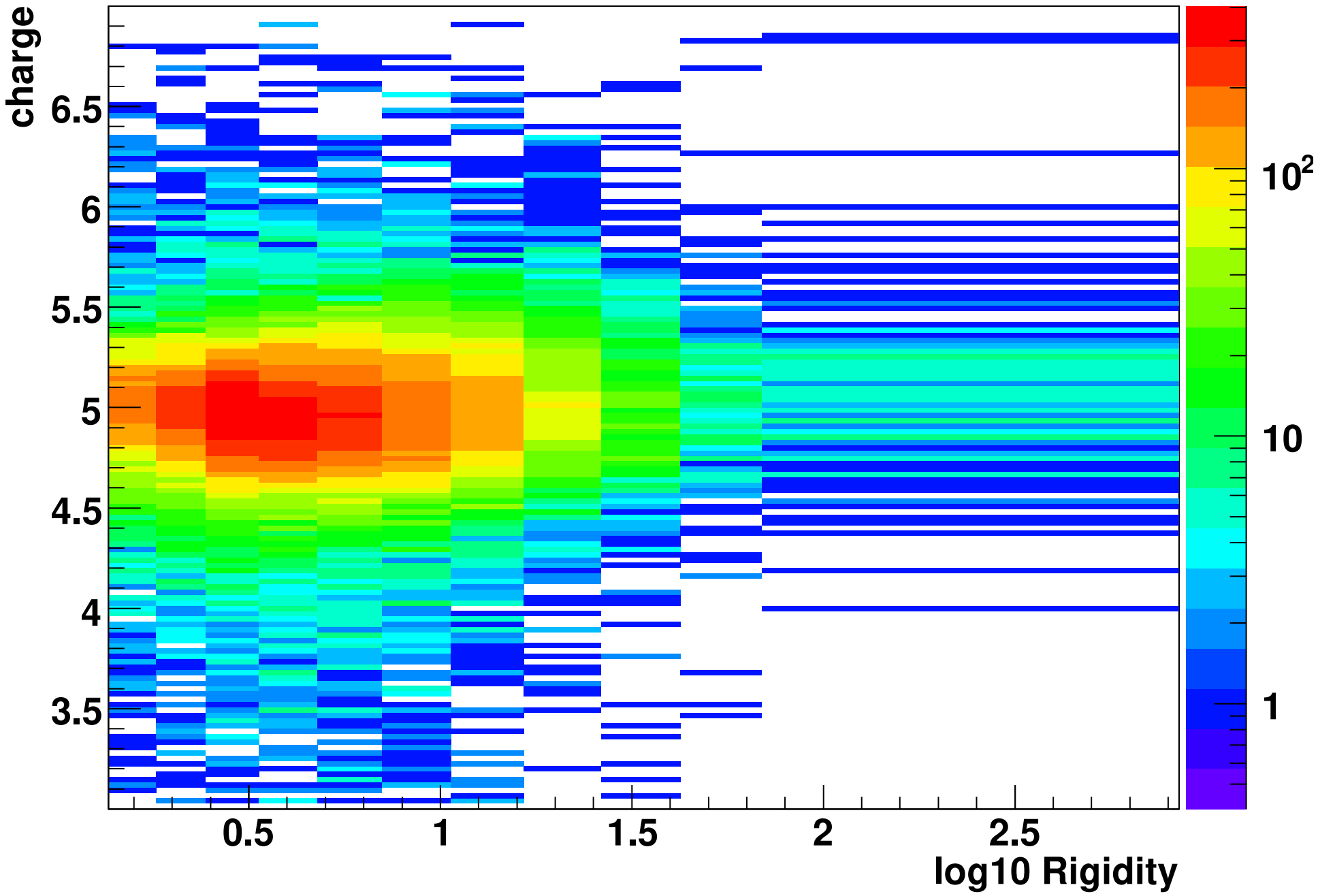
1_rig_charge_pre12_3 Boron

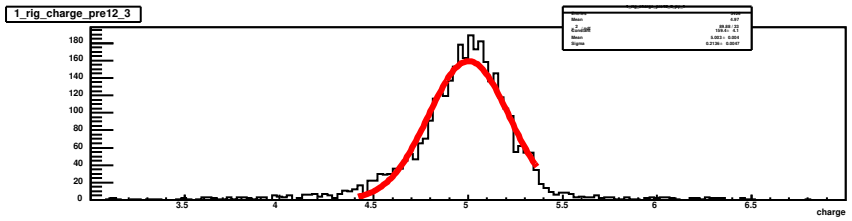


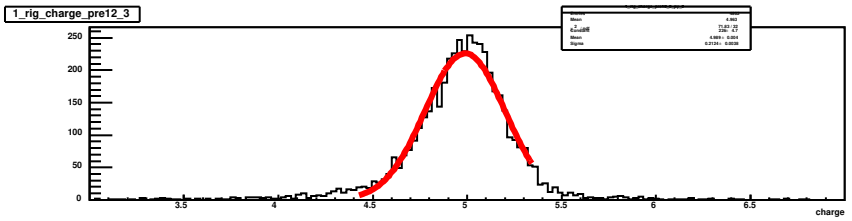
1_rig_charge_pre12_3 Boron

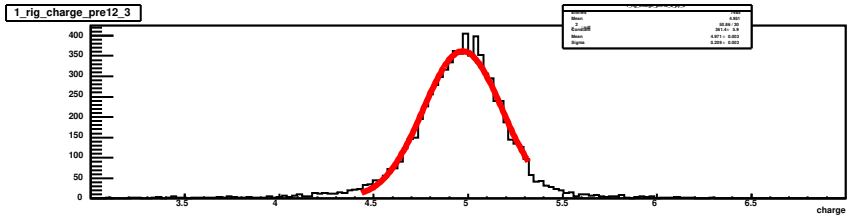


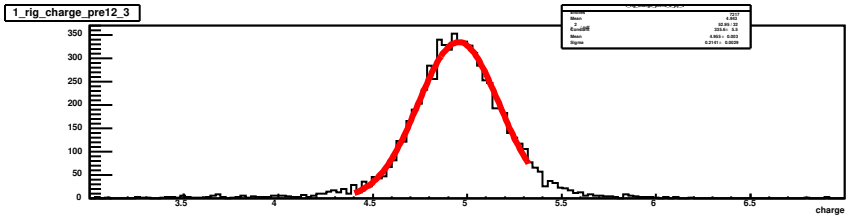
1_rig_charge_pre12_3

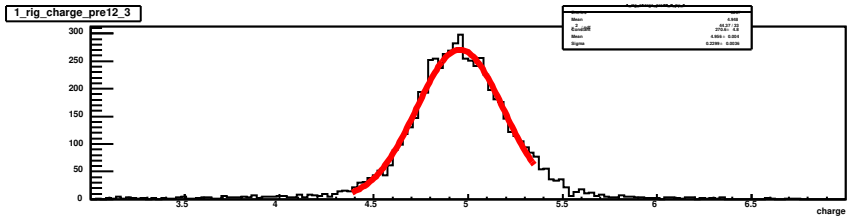


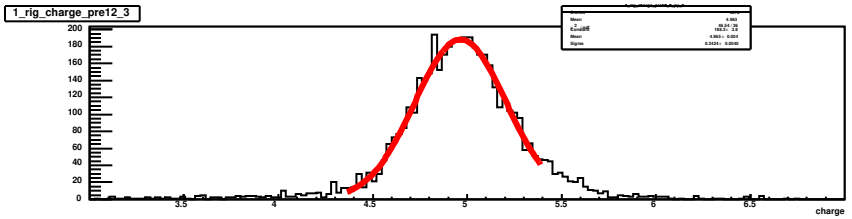

1_rig_charge_pre12_3
charge

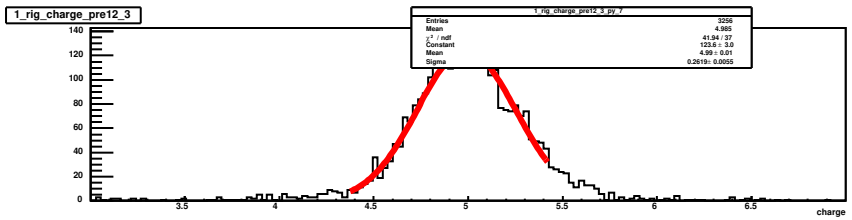

1_rig_charge_pre12_3
charge

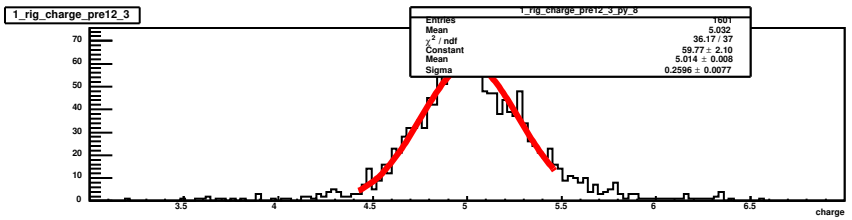

1_rig_charge_pre12_3
charge

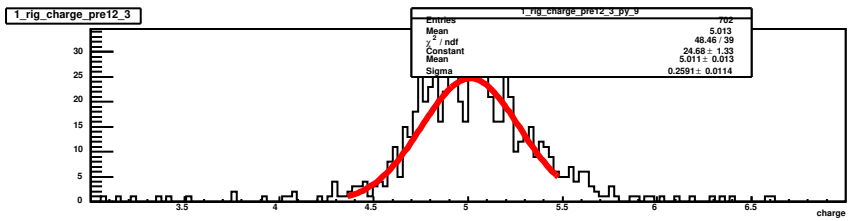

1_rig_charge_pre12_3
charge

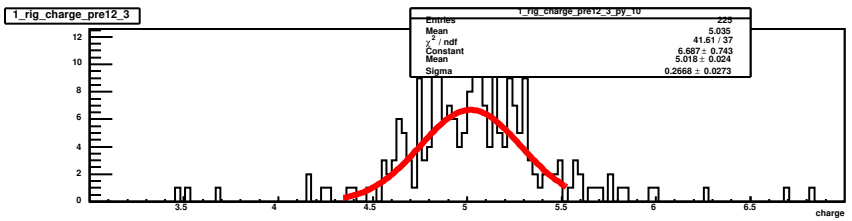

1_rig_charge_pre12_3
charge

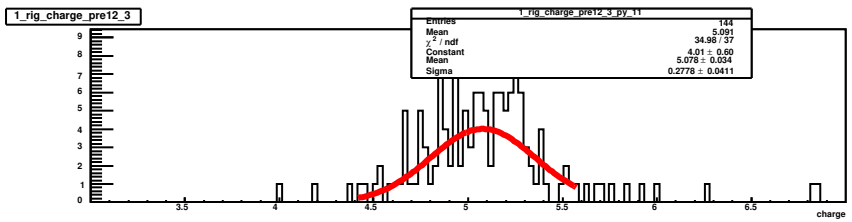

1_rig_charge_pre12_3
charge


1_rig_charge_pre12_3
1_rig_charge_pre12_3_py_7
Entries 3256
Mean 4.985
χ² / ndf 41.94 / 37
Constant 123.6 ± 3.0
Mean 4.99 ± 0.01
Sigma 0.2619 ± 0.0055
charge

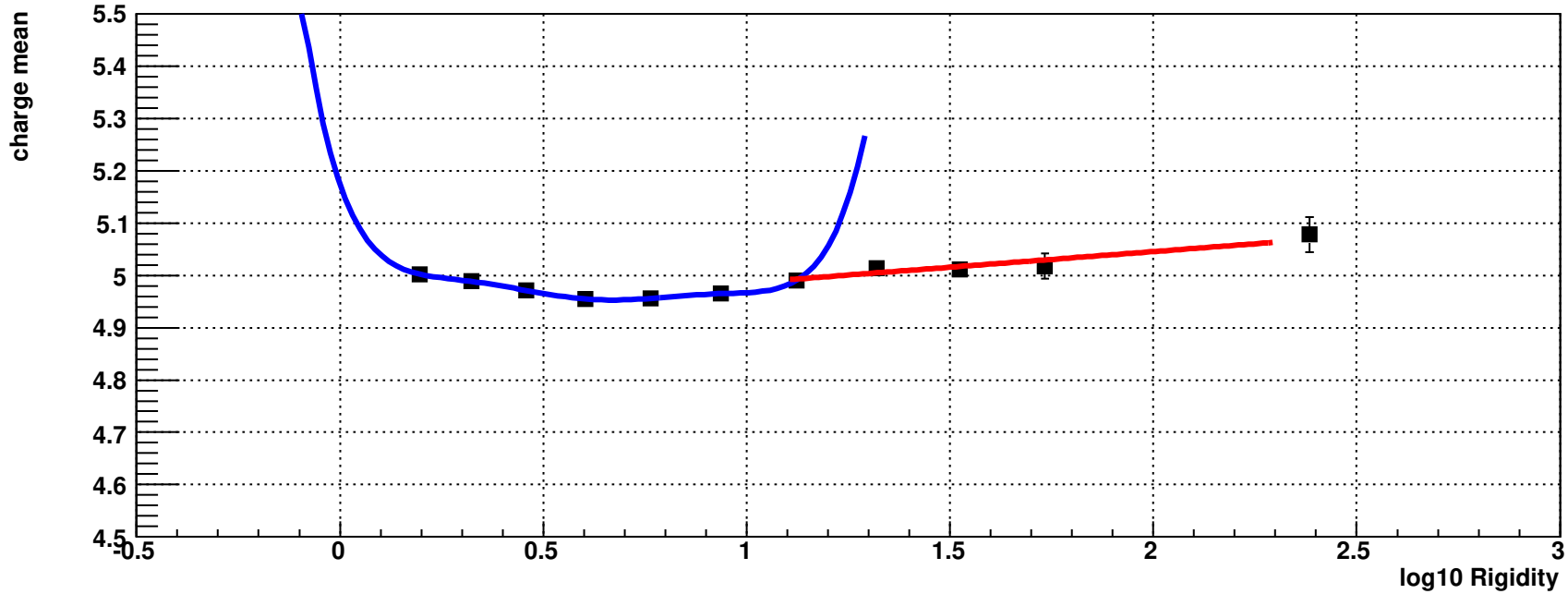

1_rig_charge_pre12_3
1_rig_charge_pre12_3_py_8
Entries 1601
Mean 5.032
χ² / ndf 36.17 / 37
Constant 59.77 ± 2.10
Mean 5.014 ± 0.008
Sigma 0.2596 ± 0.0077
charge


1_rig_charge_pre12_3
1_rig_charge_pre12_3_py_9
Entries 702
Mean 5.013
χ² / ndf 48.46 / 39
Constant 24.68 ± 1.33
Mean 5.011 ± 0.013
Sigma 0.2591 ± 0.0114
charge

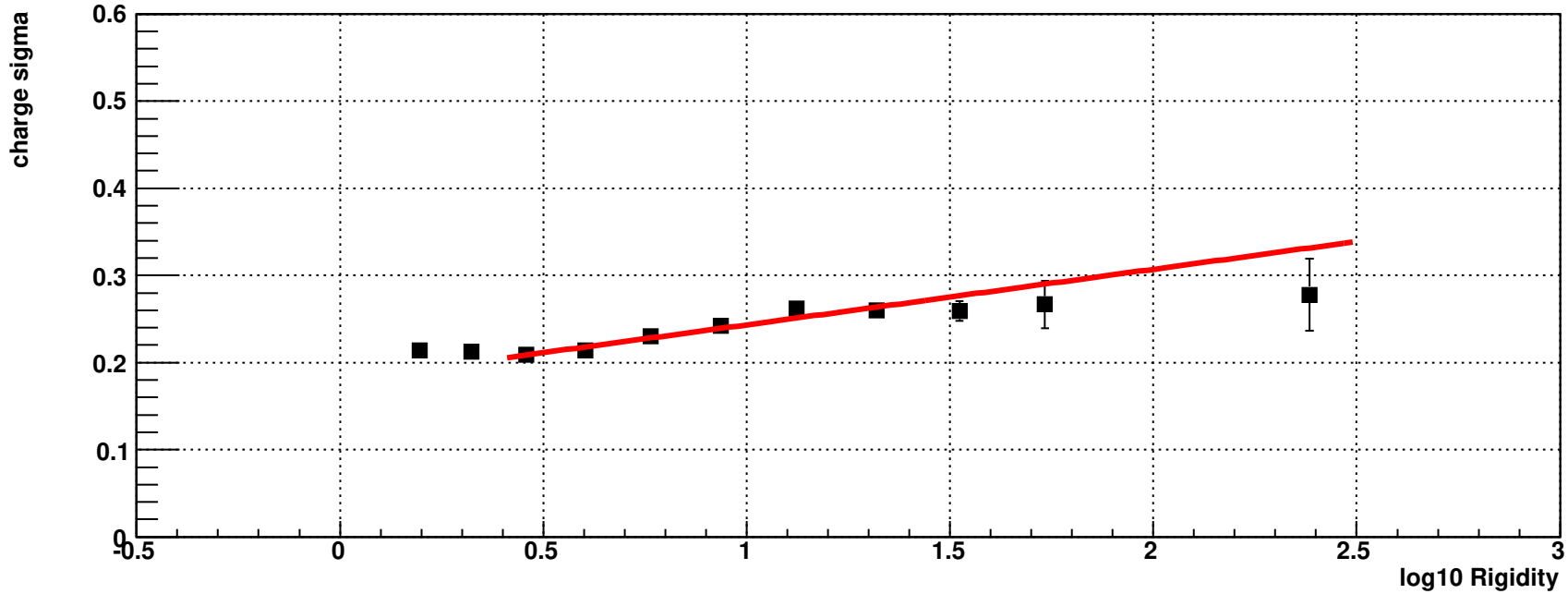

1_rig_charge_pre12_3
1_rig_charge_pre12_3_py_10
Entries 229
Mean 5.035
χ² / ndf 41.61 / 37
Constant 6.687 ± 0.743
Mean 5.018 ± 0.024
Sigma 0.2668 ± 0.0273
charge

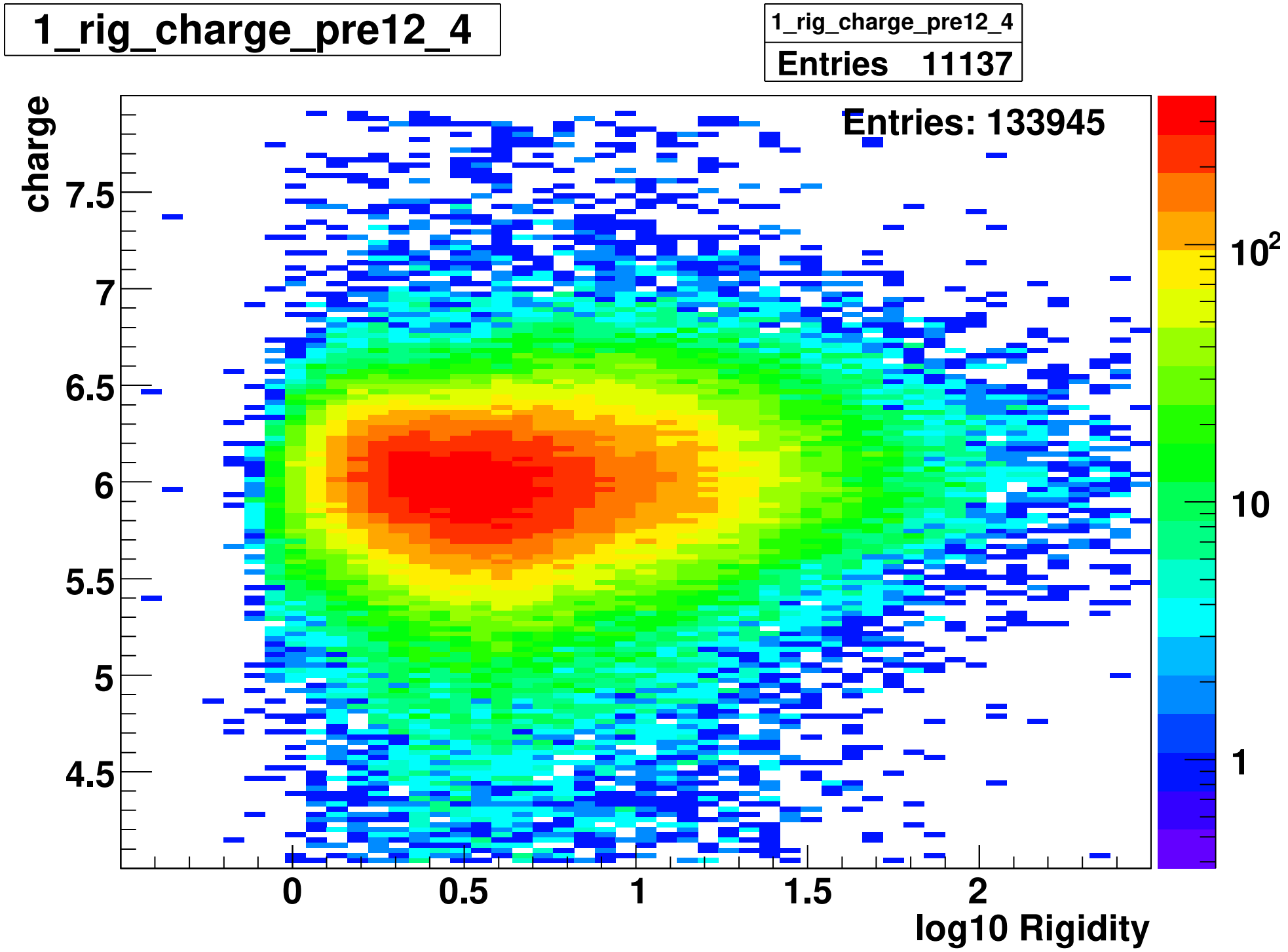

1_rig_charge_pre12_3
1_rig_charge_pre12_3_py_11
Entries 144
Mean 5.091
χ² / ndf 34.98 / 37
Constant 4.01 ± 0.60
Mean 5.078 ± 0.034
Sigma 0.2778 ± 0.0411
charge

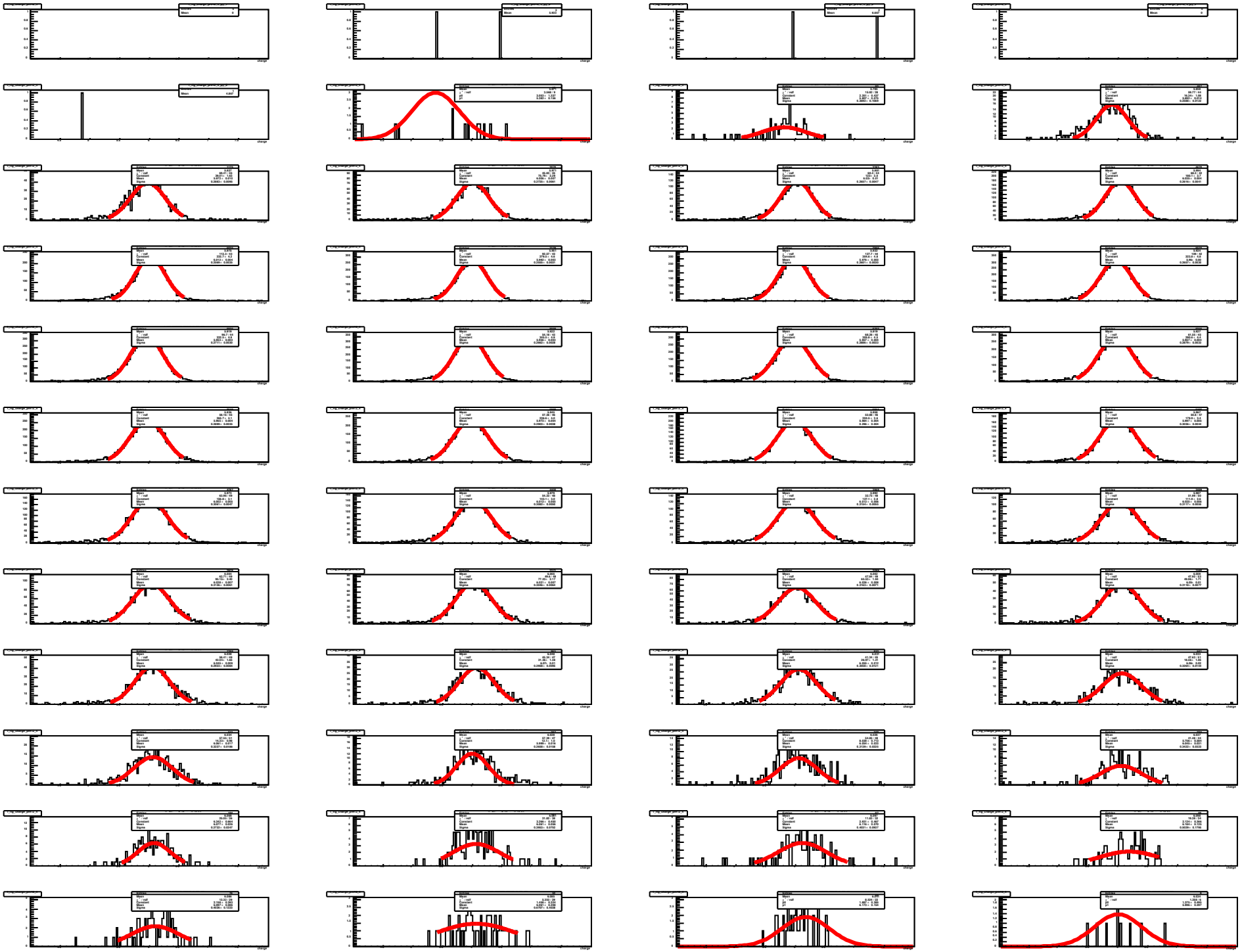
1_rig_charge_pre12_3 Boron



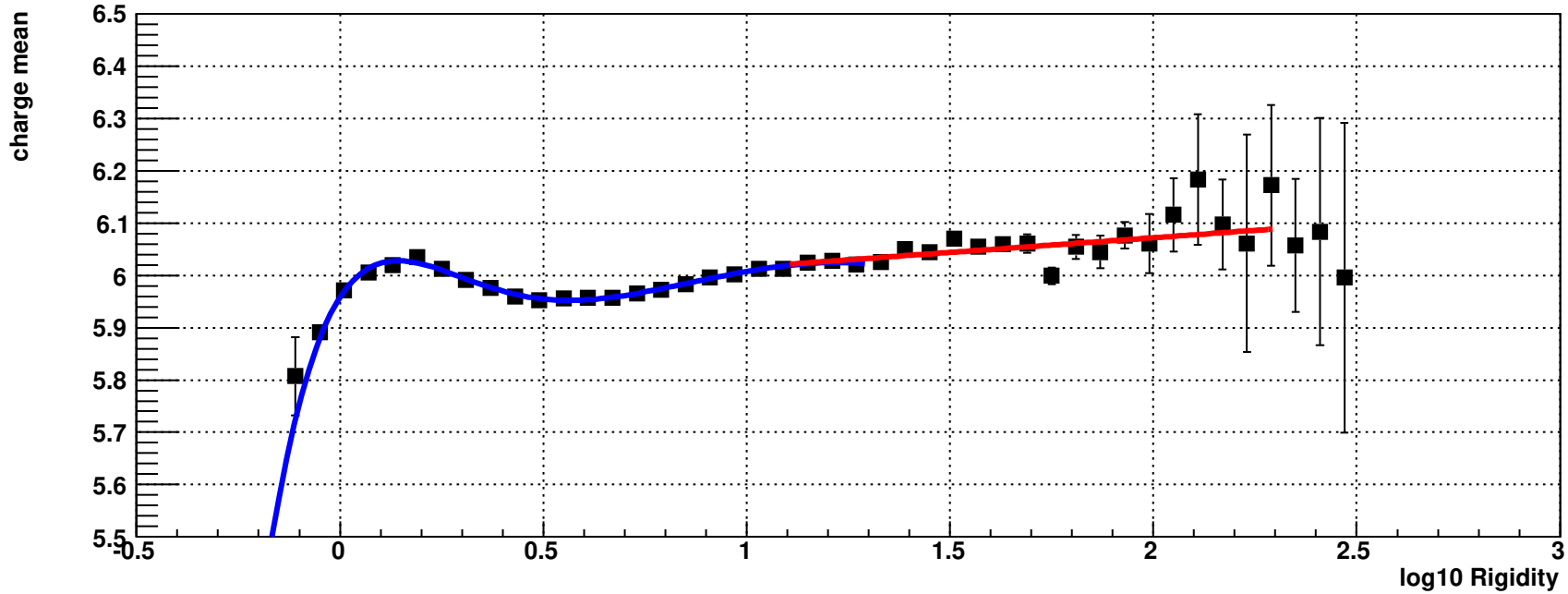
1_rig_charge_pre12_3 Boron



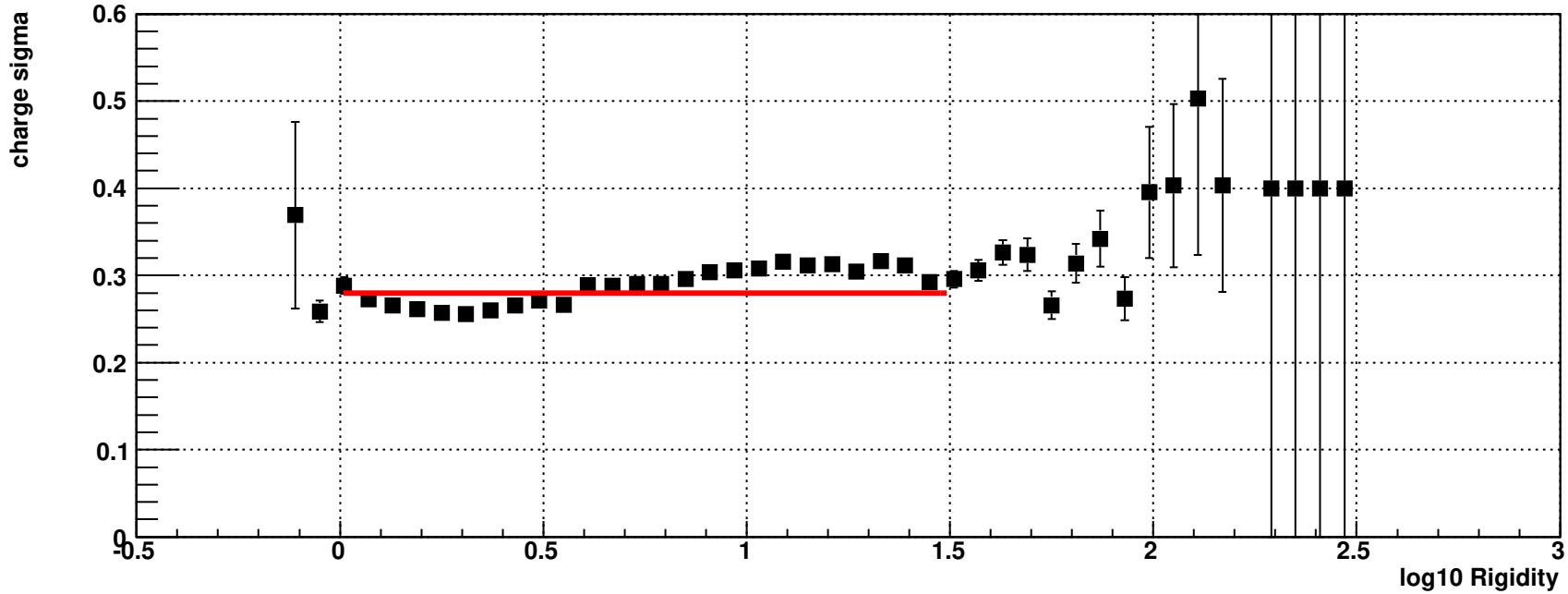

1_rig_charge_pre12_4
1_rig_charge_pre12_4
Entries 11137
Entries: 133945
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



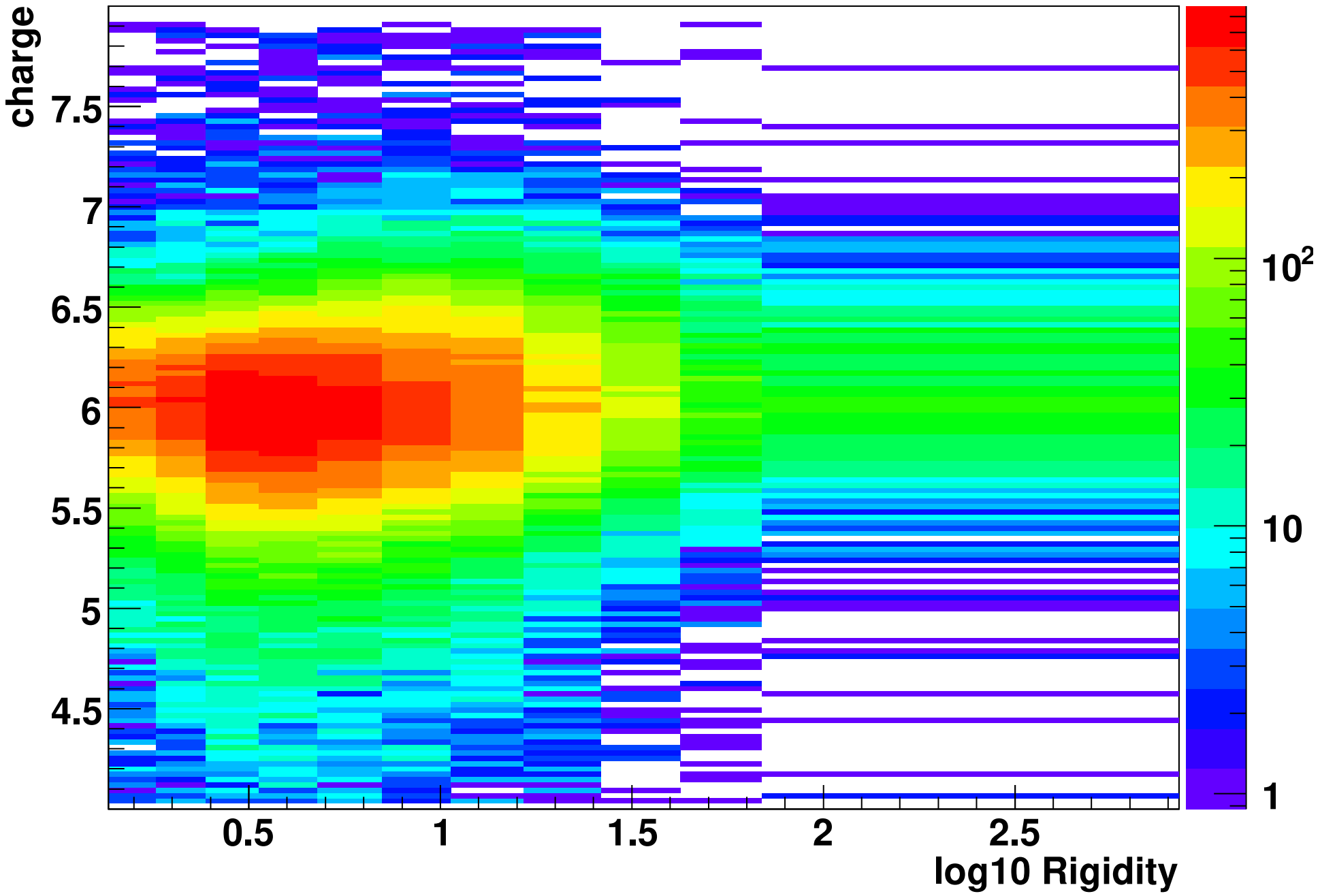
1_rig_charge_pre12_4 Carbon

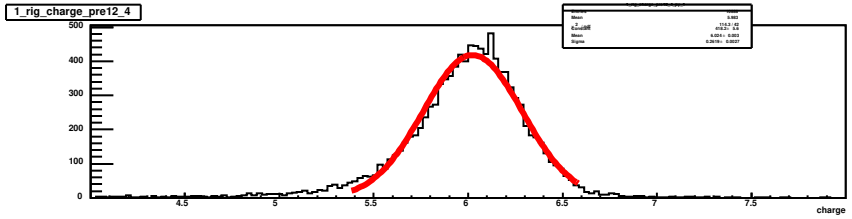


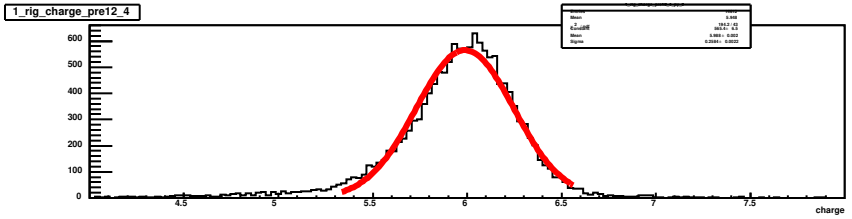
1_rig_charge_pre12_4 Carbon

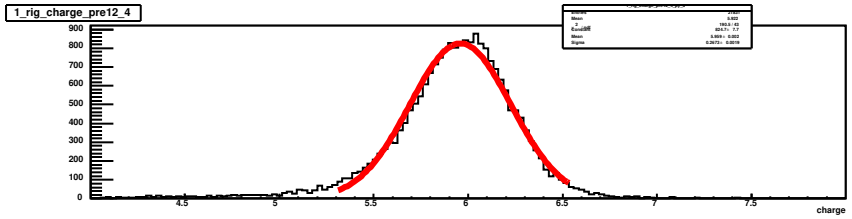


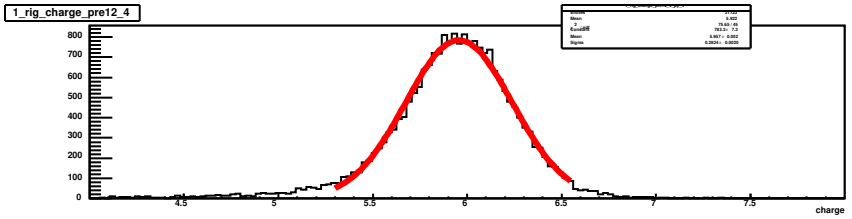
1_rig_charge_pre12_4

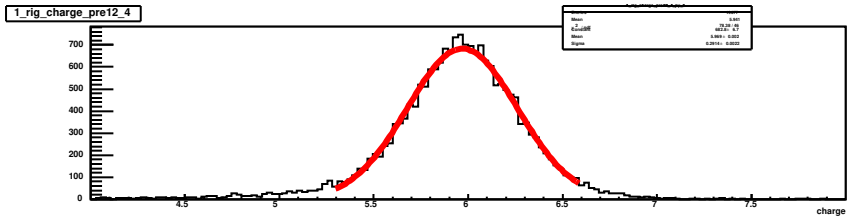


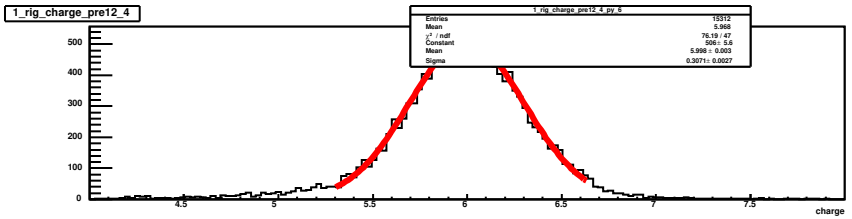

1_rig_charge_pre12_4
charge

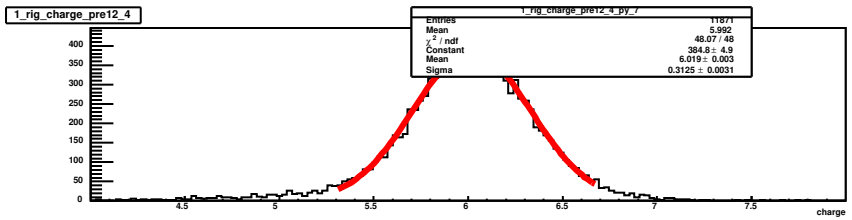

1_rig_charge_pre12_4
charge

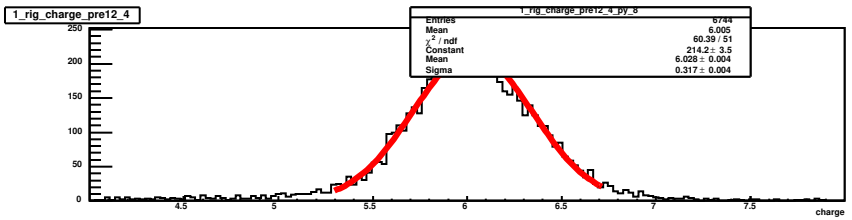

1_rig_charge_pre12_4
charge

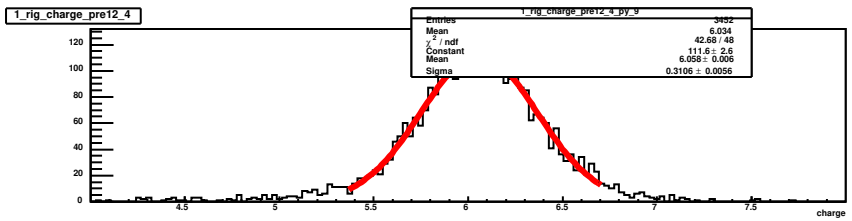

1_rig_charge_pre12_4
charge

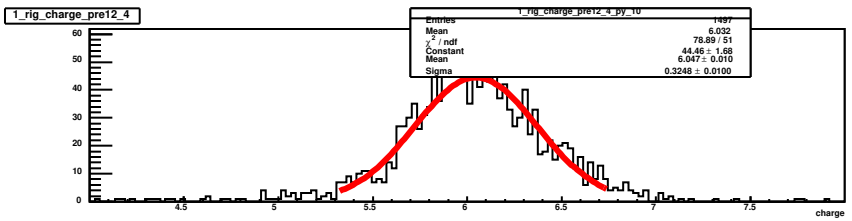

1_rig_charge_pre12_4
charge

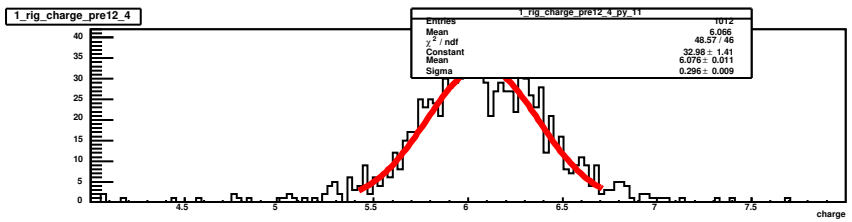

1_rig_charge_pre12_4
1_rig_charge_pre12_4_py_6
Entries 15312
Mean 5.998
χ² / ndf 76.19 / 47
Constant 506 ± 5.6
Mean 5.998 ± 0.003
Sigma 0.3071 ± 0.0027
charge


1_rig_charge_pre12_4
1_rig_charge_pre12_4_py_7
Entries 11871
Mean 5.992
χ² / ndf 48.07 / 48
Constant 384.8 ± 4.9
Mean 6.019 ± 0.003
Sigma 0.3125 ± 0.0031
charge

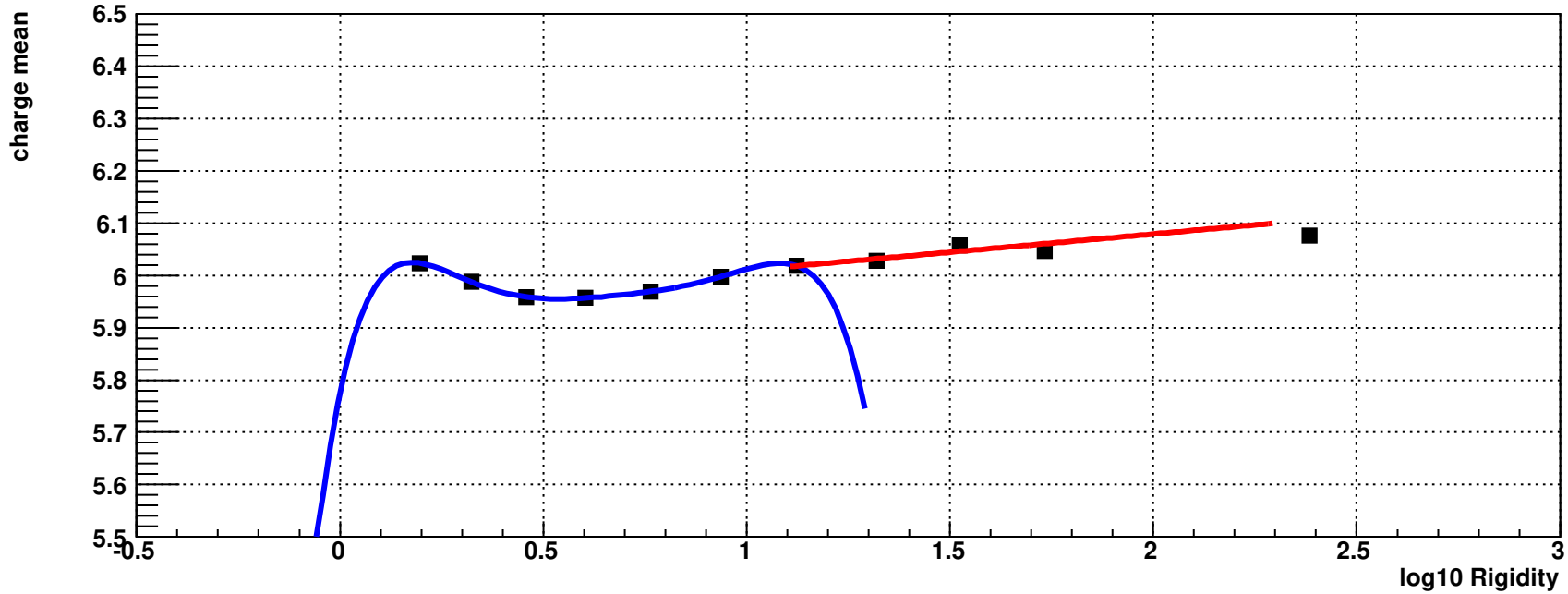

1_rig_charge_pre12_4
1_rig_charge_pre12_4_py_8
Entries 6744
Mean 6.005
χ² / ndf 60.39 / 51
Constant 214.2 ± 3.5
Mean 6.028 ± 0.004
Sigma 0.317 ± 0.004
charge


1_rig_charge_pre12_4
1_rig_charge_pre12_4_py_9
Entries 3492
Mean 6.034
χ² / ndf 42.68 / 48
Constant 111.6 ± 2.6
Mean 6.058 ± 0.006
Sigma 0.3106 ± 0.0056
charge

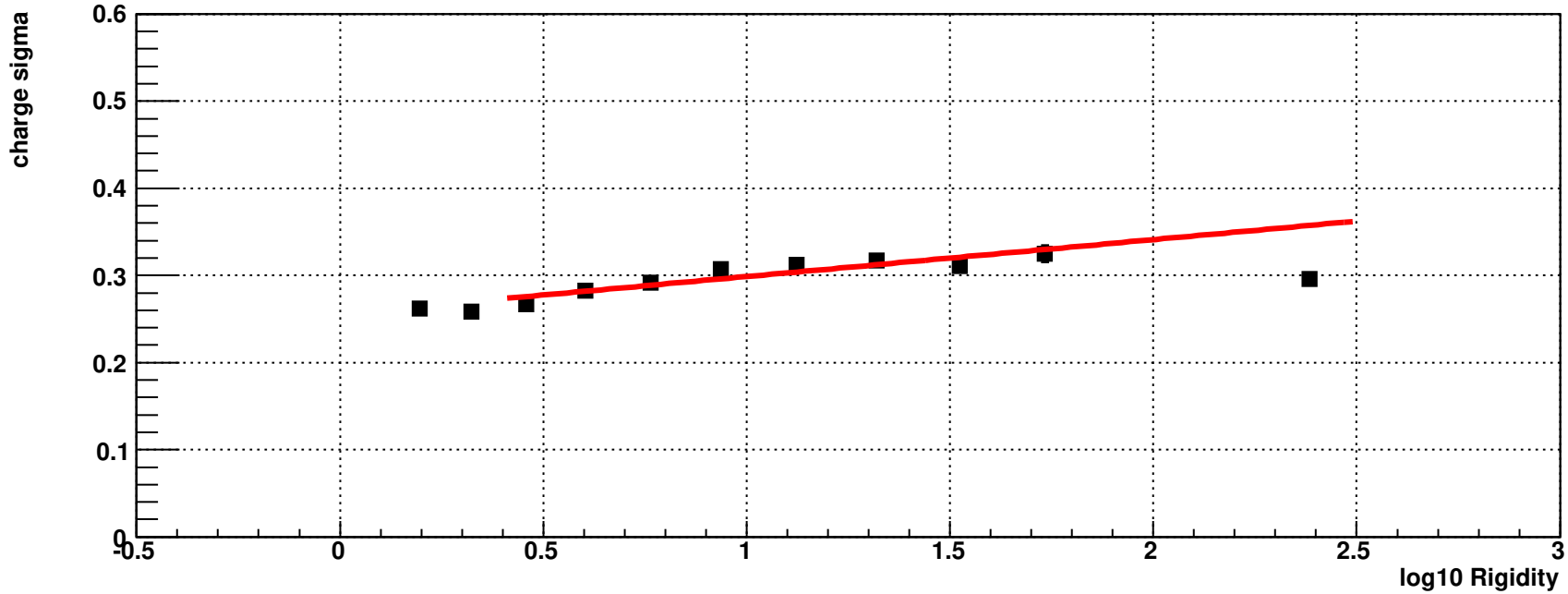

1_rig_charge_pre12_4
1_rig_charge_pre12_4_py_10
Entries 1497
Mean 6.032
χ² / ndf 78.89 / 51
Constant 44.46 ± 1.68
Mean 6.047 ± 0.010
Sigma 0.3248 ± 0.0100
charge

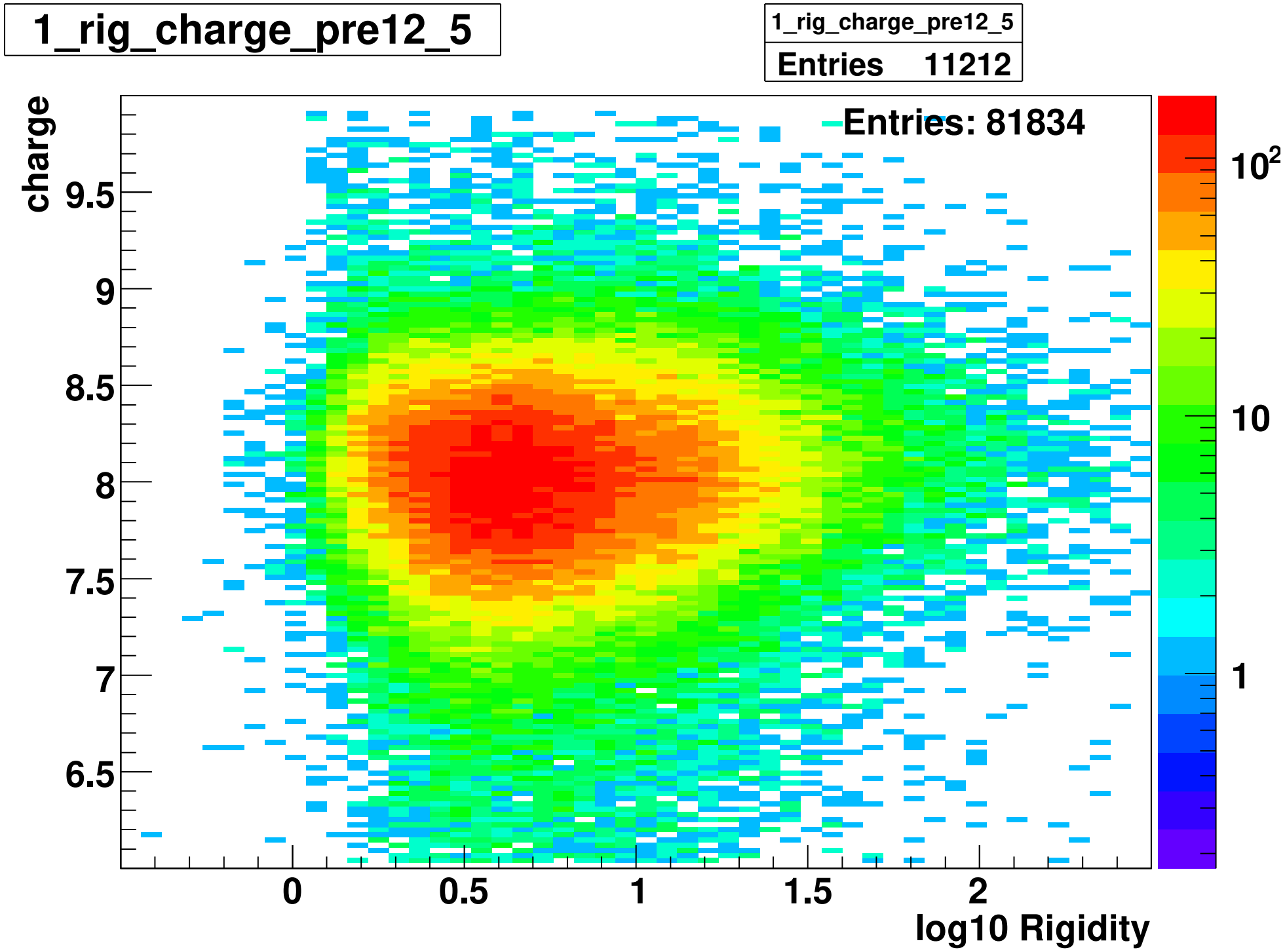

1_rig_charge_pre12_4
1_rig_charge_pre12_4_py_11
Entries 1012
Mean 6.066
χ² / ndf 48.57 / 46
Constant 32.98 ± 1.41
Mean 6.076 ± 0.011
Sigma 0.296 ± 0.009
charge

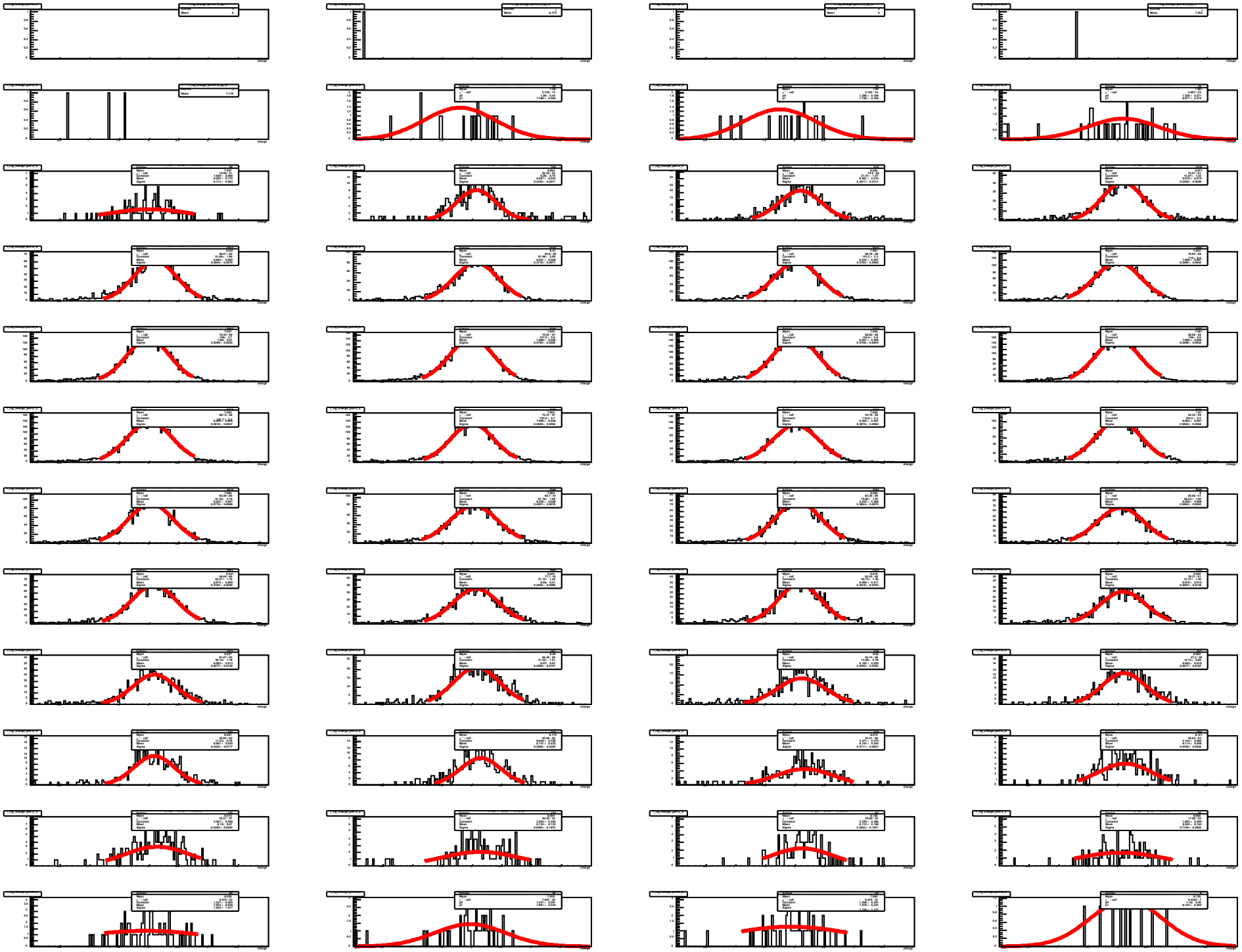
1_rig_charge_pre12_4 Carbon



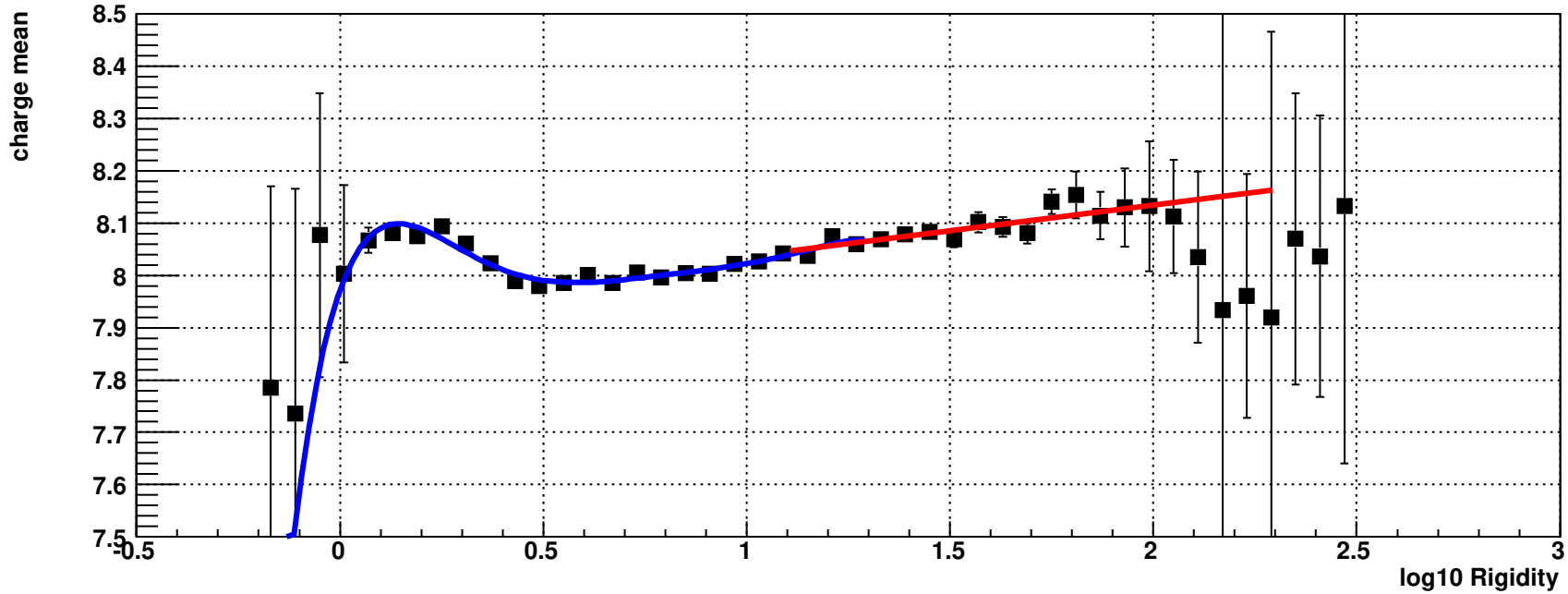
1_rig_charge_pre12_4 Carbon



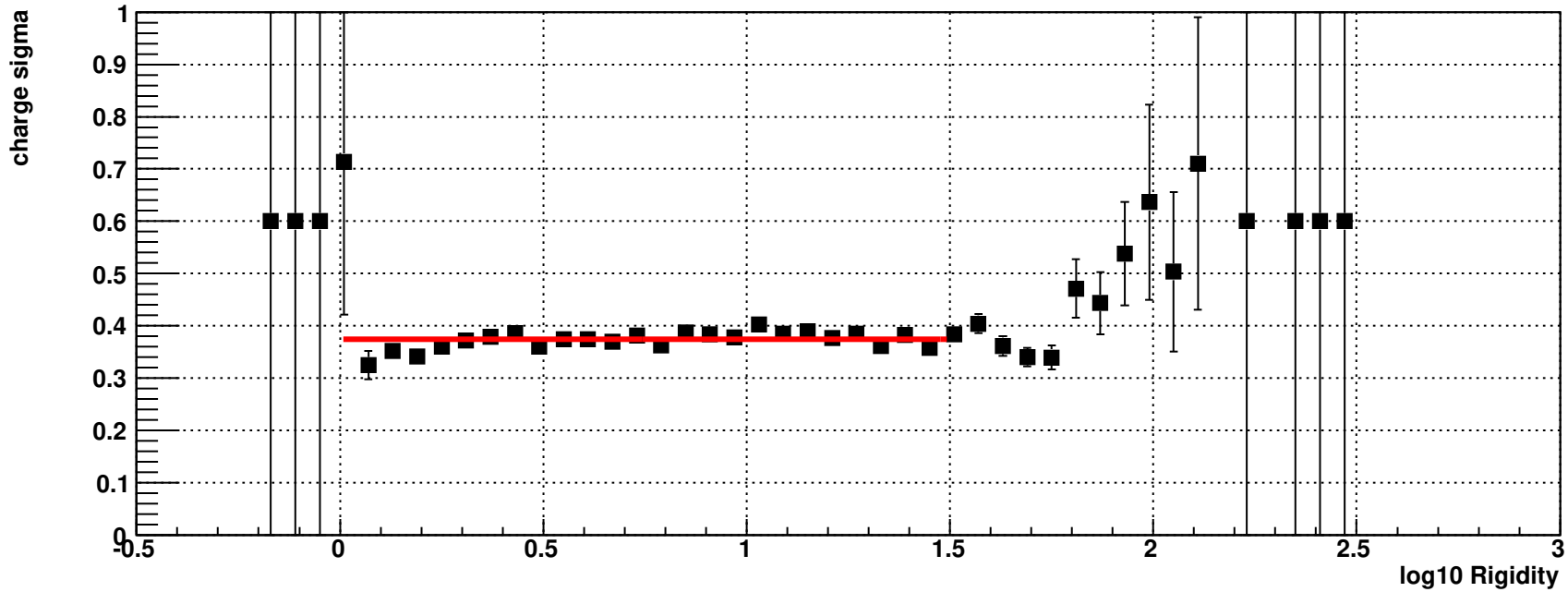

1_rig_charge_pre12_5
1_rig_charge_pre12_5
Entries 11212
Entries: 81834
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

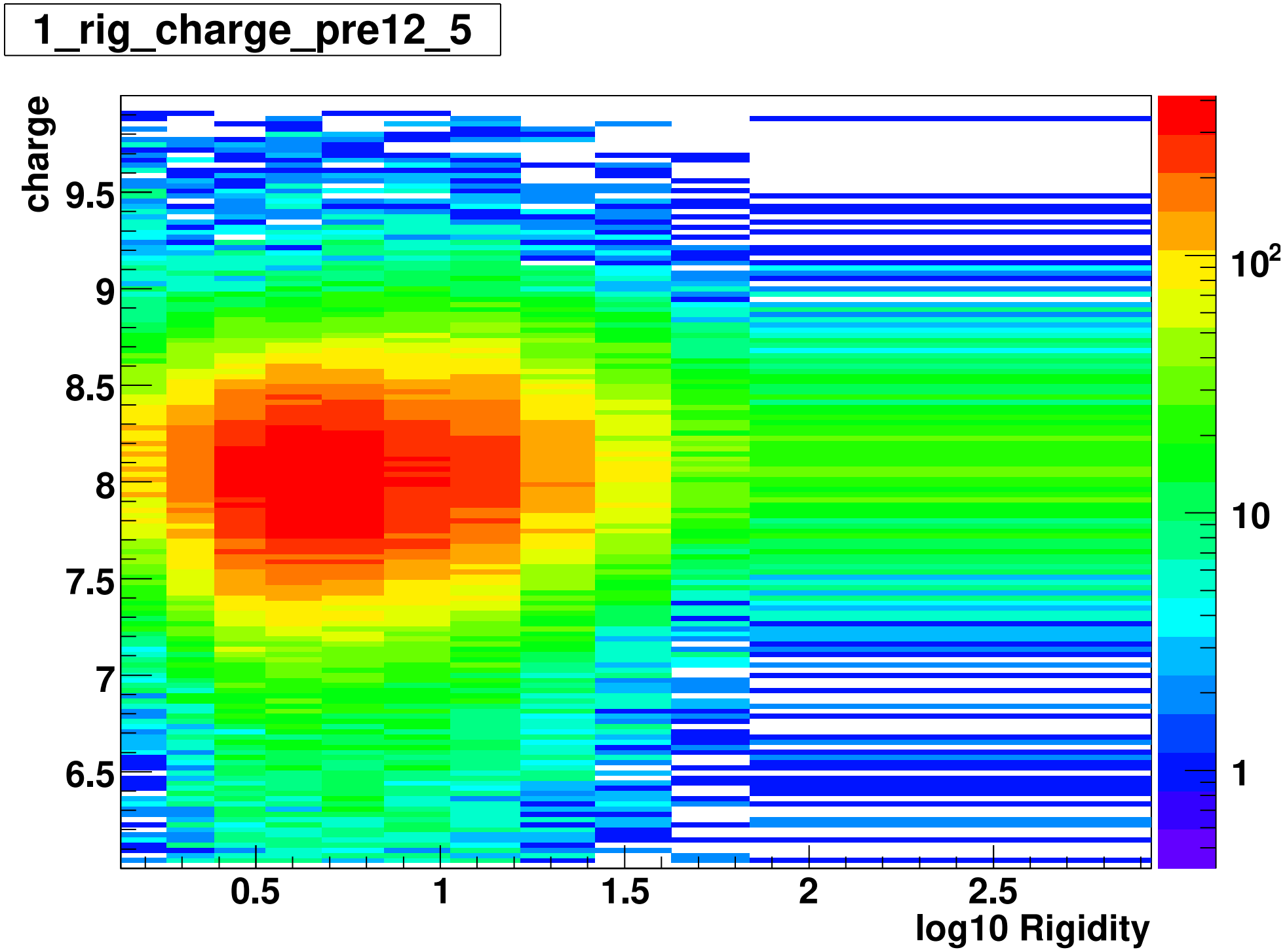


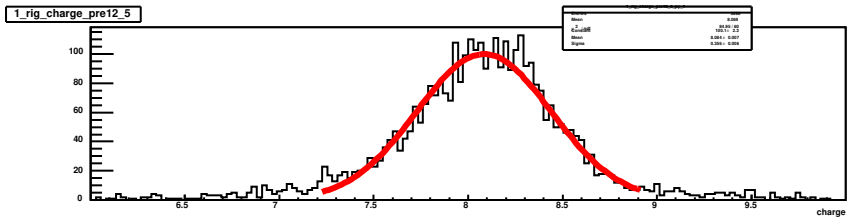
1_rig_charge_pre12_5_py_50

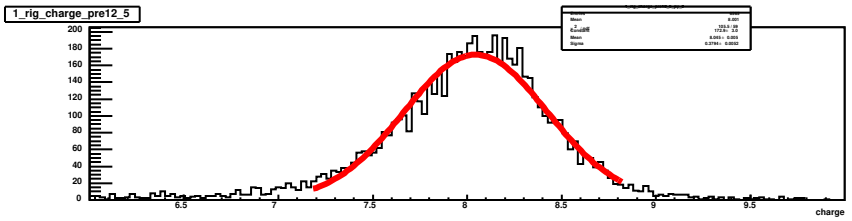


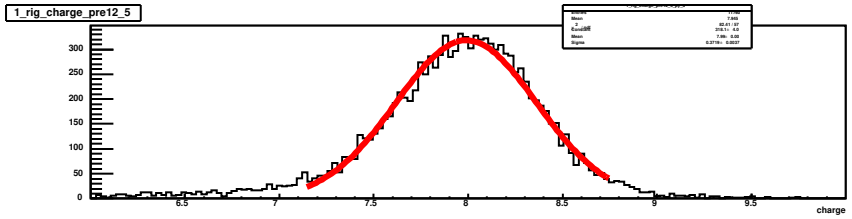
1_rig_charge_pre12_5_py_50

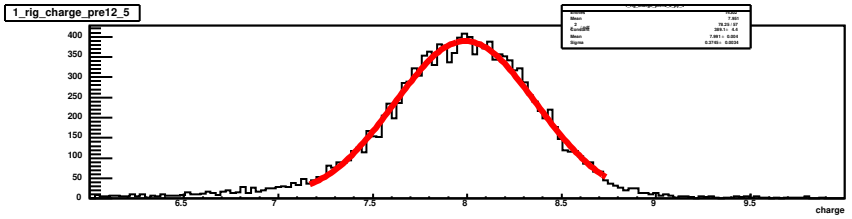


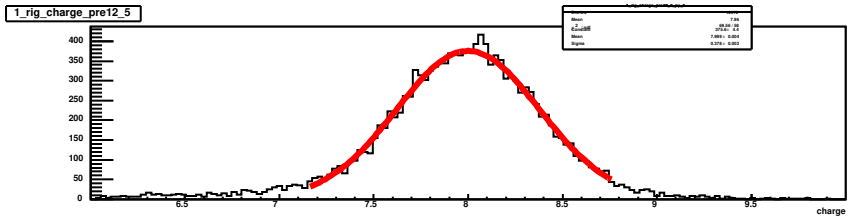

1_rig_charge_pre12_5
charge
9.5
9
8.5
8
7.5
7
6.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

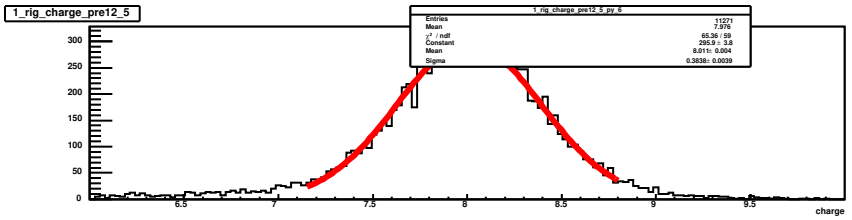

1_rig_charge_pre12_5
charge

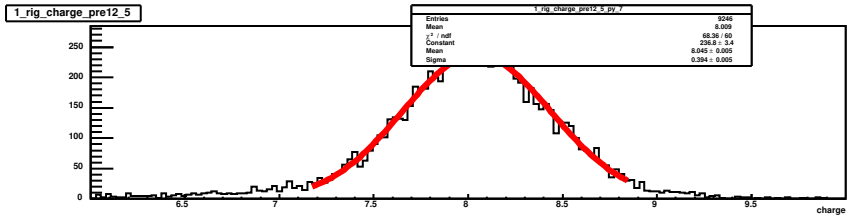

1_rig_charge_pre12_5
charge

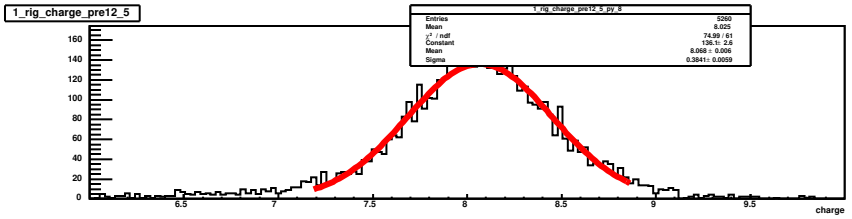

1_rig_charge_pre12_5
charge

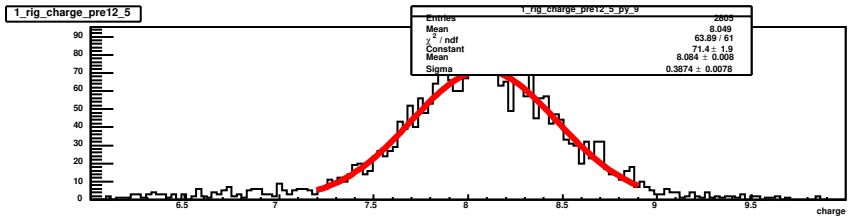

1_rig_charge_pre12_5
charge

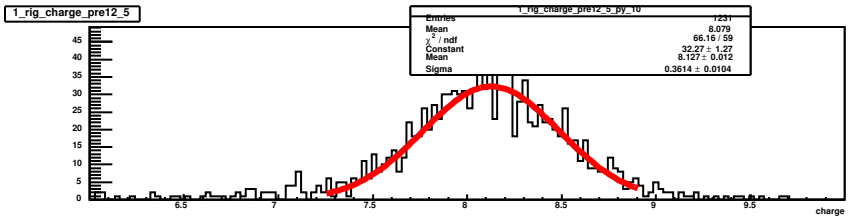

1_rig_charge_pre12_5
charge

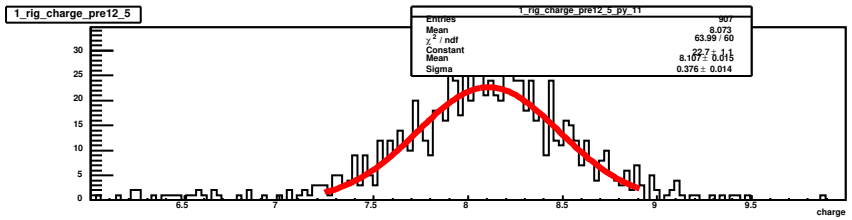

1_rig_charge_pre12_5
1_rig_charge_pre12_5_py_6
Entries 11271
Mean 7.976
χ² / ndf 65.36 / 59
Constant 295.9 ± 3.8
Mean 8.011 ± 0.004
Sigma 0.3838 ± 0.0039
charge


1_rig_charge_pre12_5
1_rig_charge_pre12_5_py_7
Entries 9246
Mean 8.009
χ² / ndf 68.36 / 60
Constant 236.8 ± 3.4
Mean 8.045 ± 0.005
Sigma 0.394 ± 0.005
charge

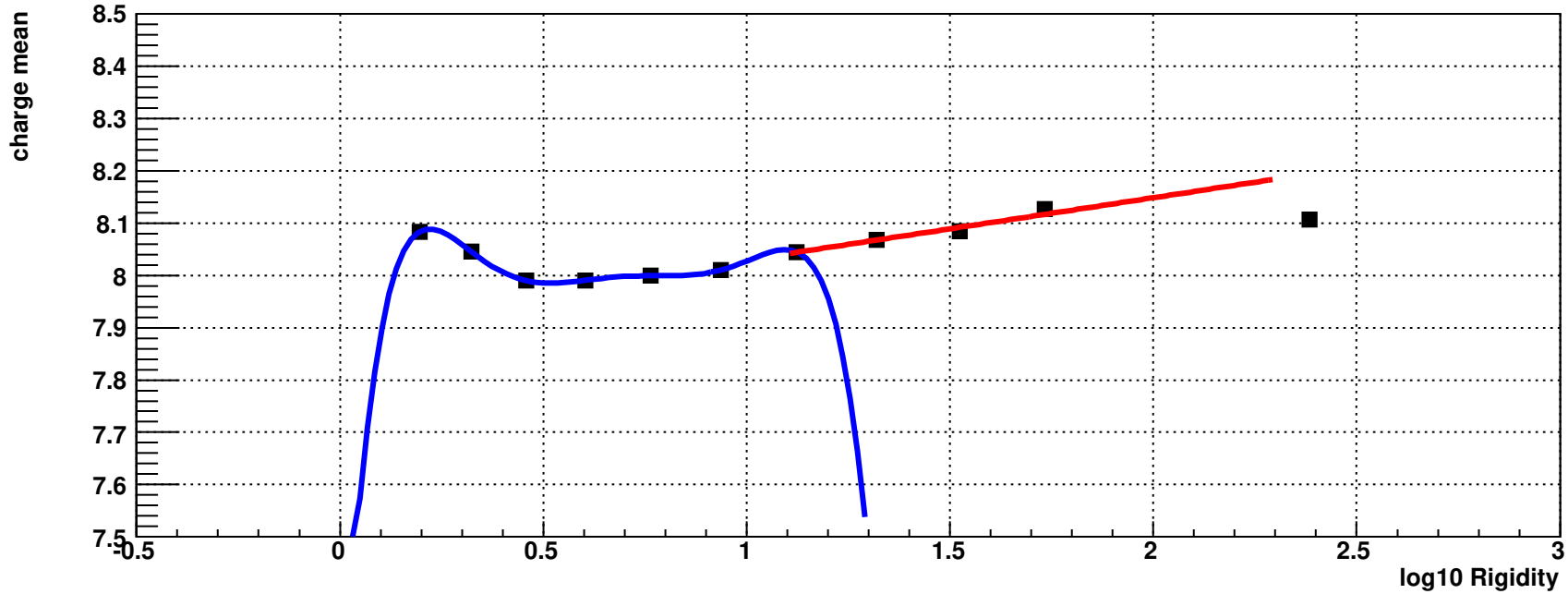

1_rig_charge_pre12_5
1_rig_charge_pre12_5_py_8
Entries 5260
Mean 8.025
χ² / ndf 74.99 / 61
Constant 136.1 ± 2.6
Mean 8.068 ± 0.006
Sigma 0.3841 ± 0.0059
charge


1_rig_charge_pre12_5
1_rig_charge_pre12_5_py_9
Entries 2805
Mean 8.049
χ² / ndf 63.89 / 61
Constant 71.4 ± 1.9
Mean 8.084 ± 0.008
Sigma 0.3874 ± 0.0078
charge

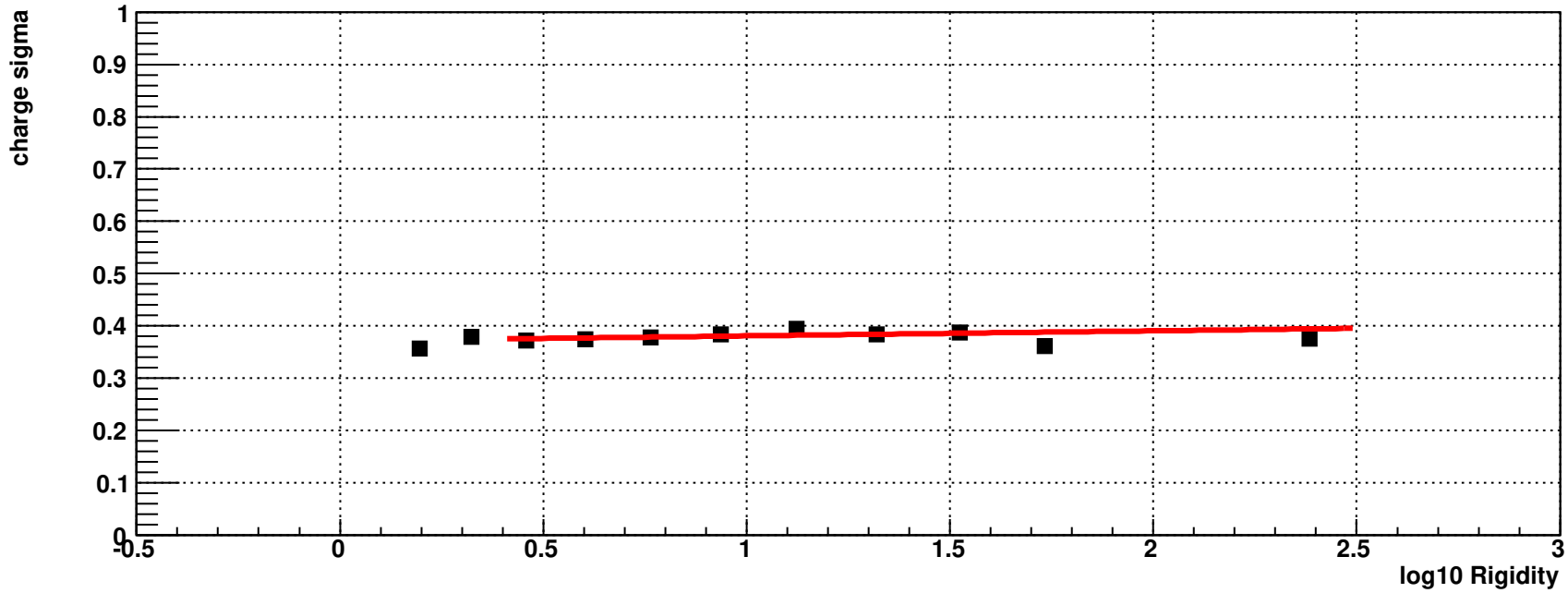

1_rig_charge_pre12_5
1_rig_charge_pre12_5_py_10
Entries 1231
Mean 8.079
χ² / ndf 66.16 / 59
Constant 32.27 ± 1.27
Mean 8.127 ± 0.012
Sigma 0.3614 ± 0.0104
charge

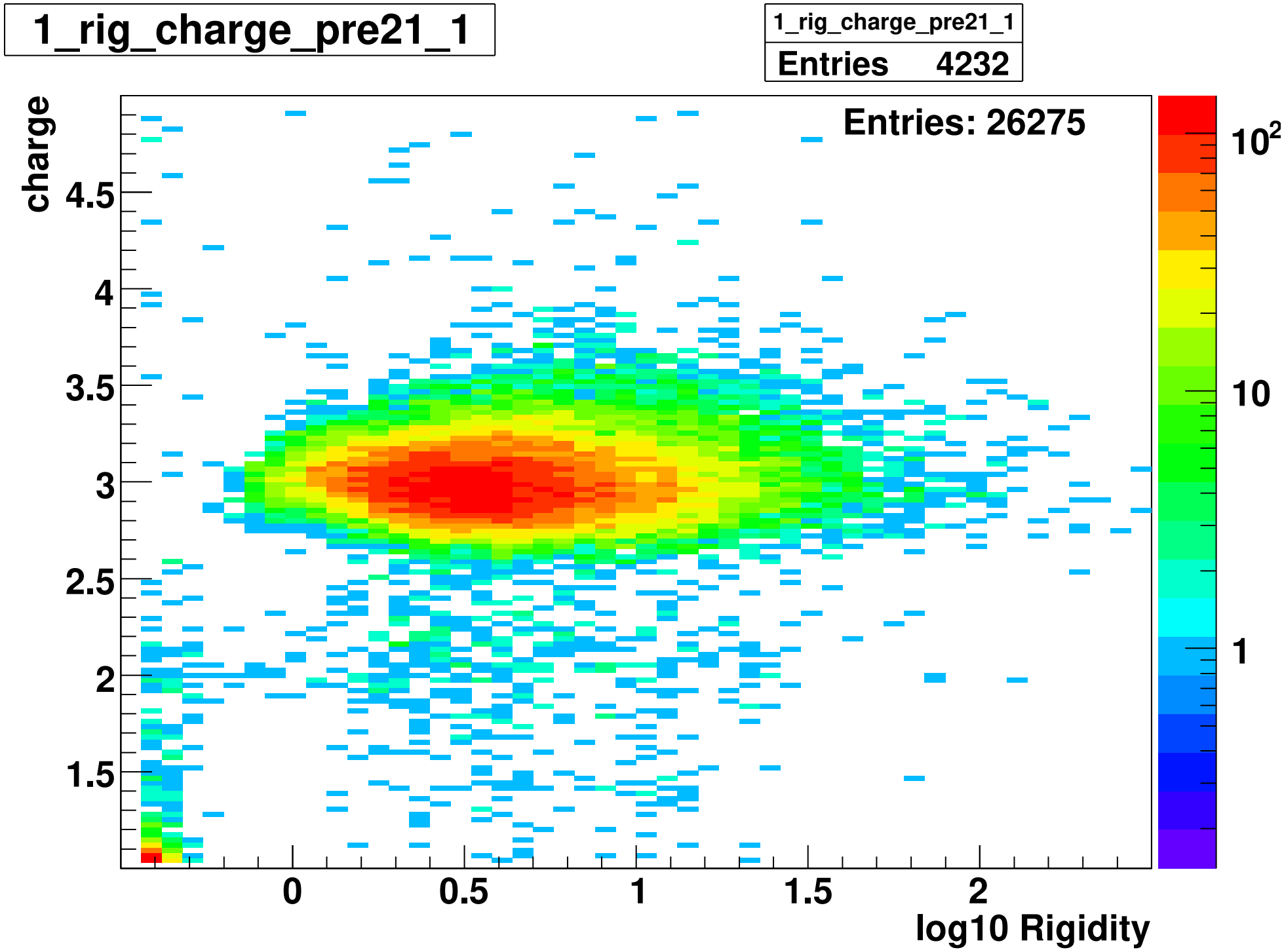

1_rig_charge_pre12_5
1_rig_charge_pre12_5_py_11
Entries 907
Mean 8.073
χ² / ndf 63.99 / 60
Constant 27.7 ± 1.1
Mean 8.107 ± 0.015
Sigma 0.376 ± 0.014
charge

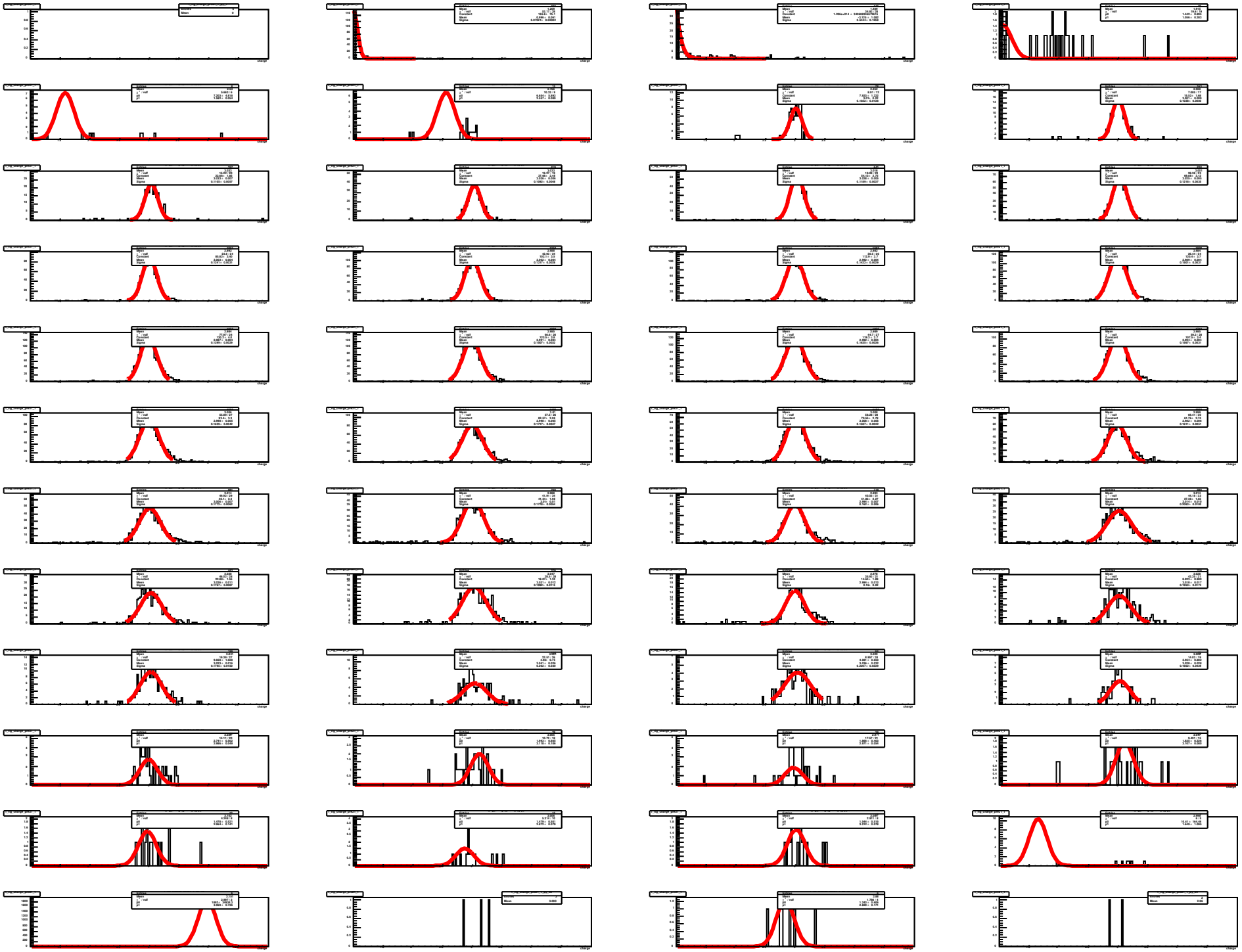
1_rig_charge_pre12_5_py_11



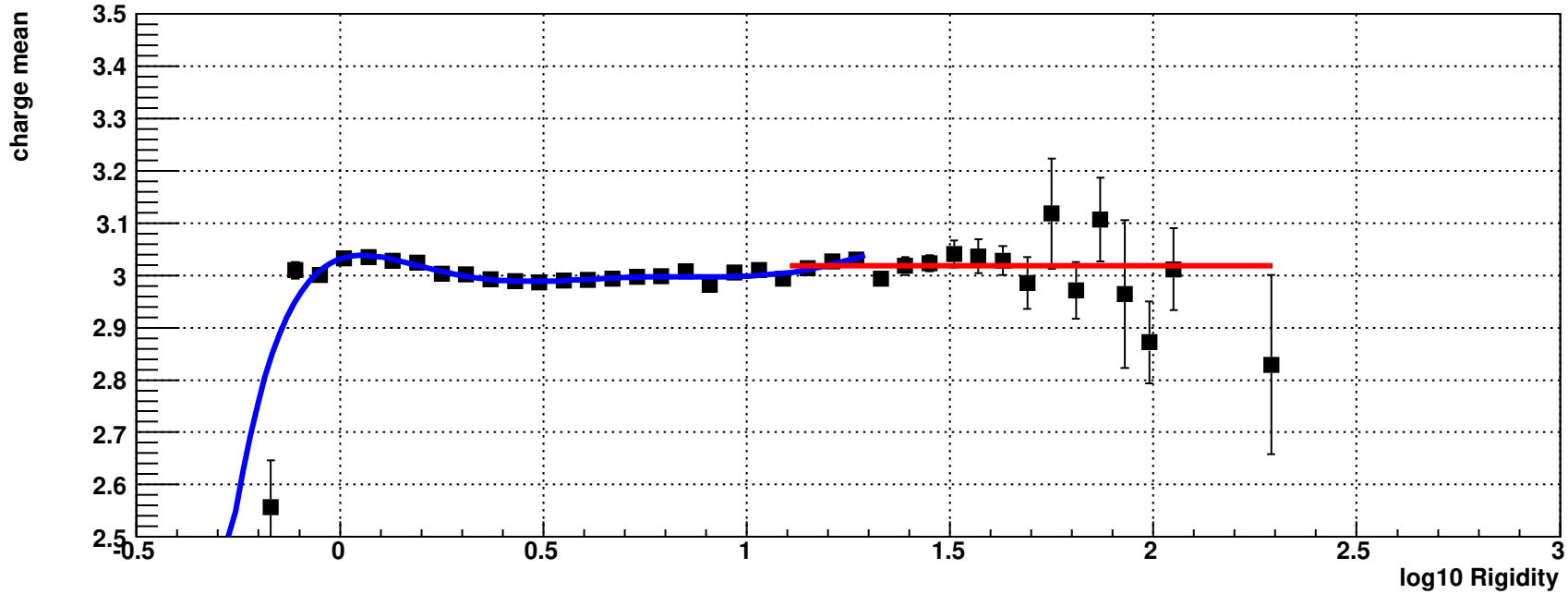
1_rig_charge_pre12_5_py_11



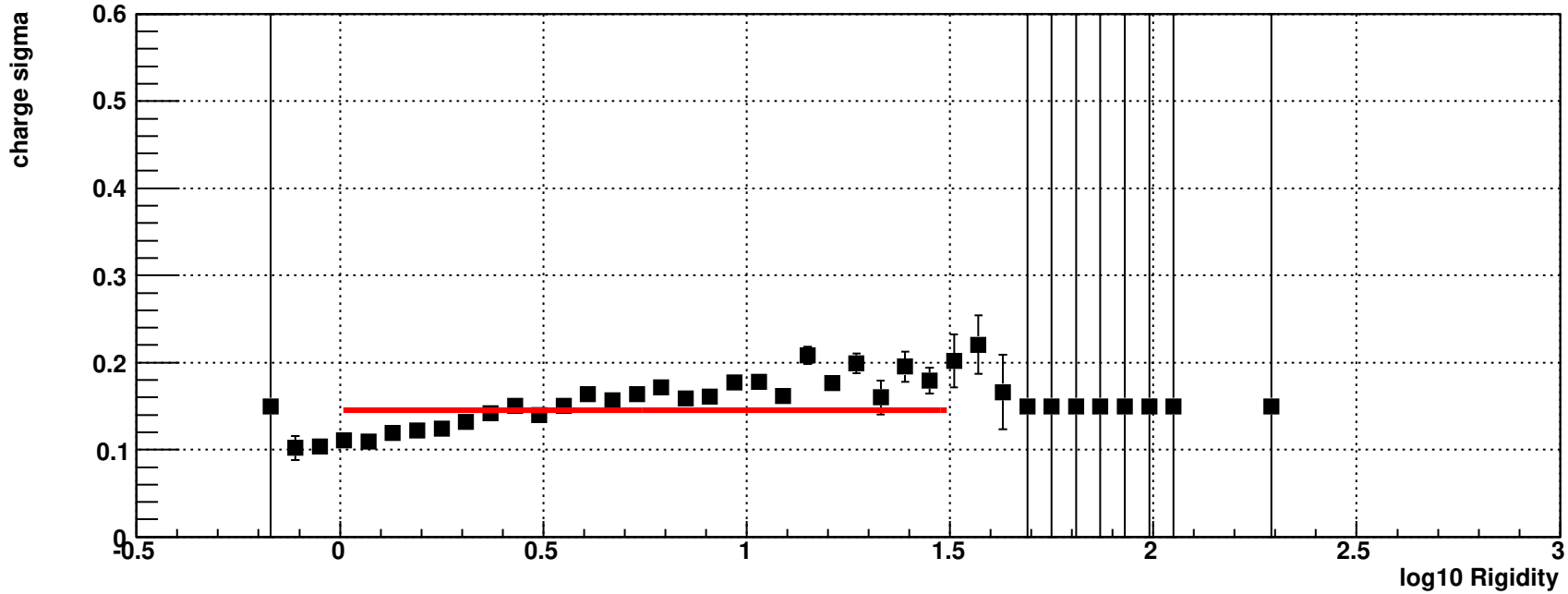

1_rig_charge_pre21_1
1_rig_charge_pre21_1
Entries 4232
Entries: 26275
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

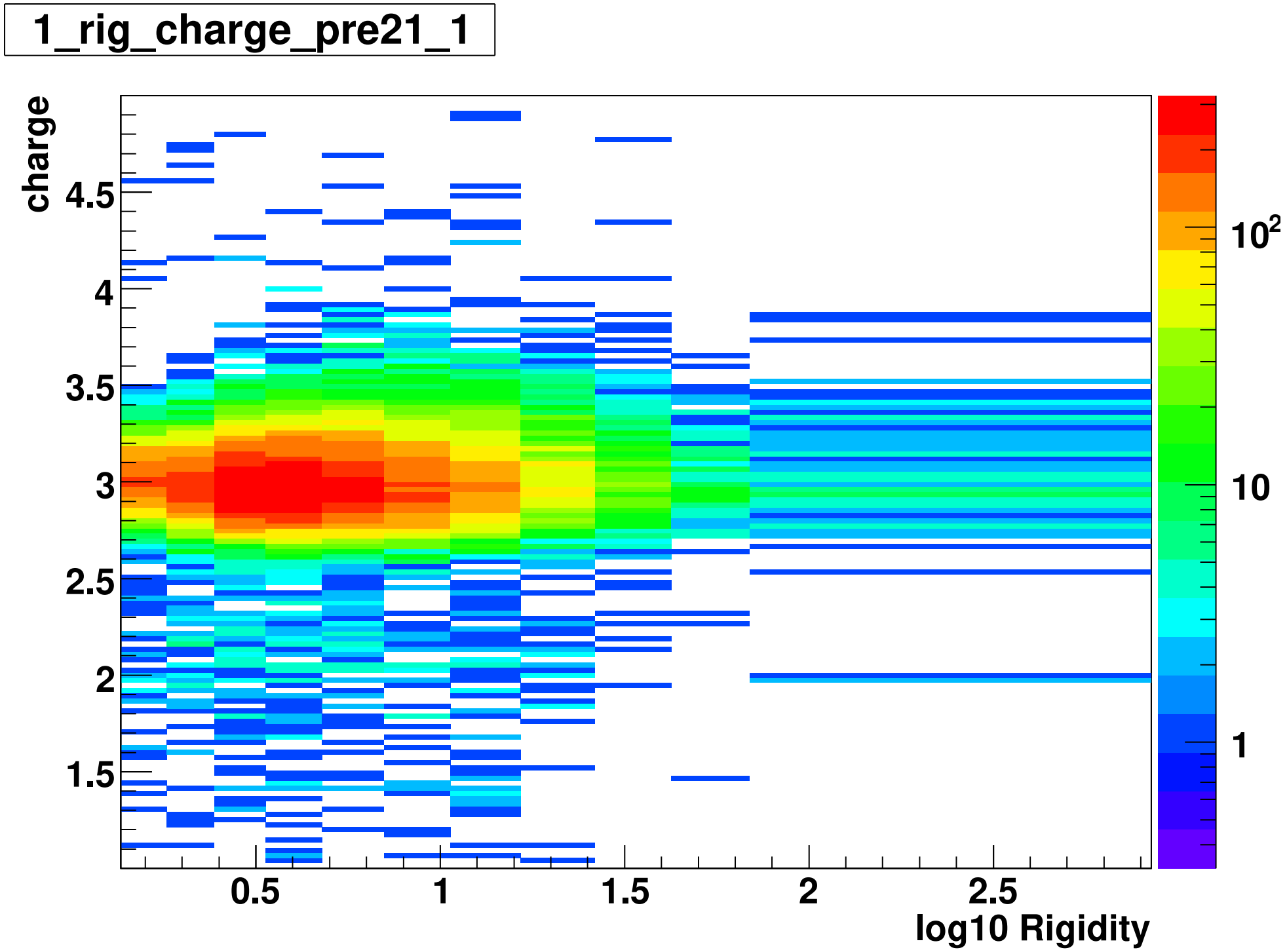


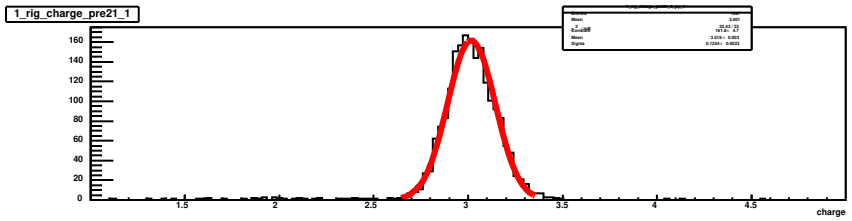
1_rig_charge_pre21_1 Lithium

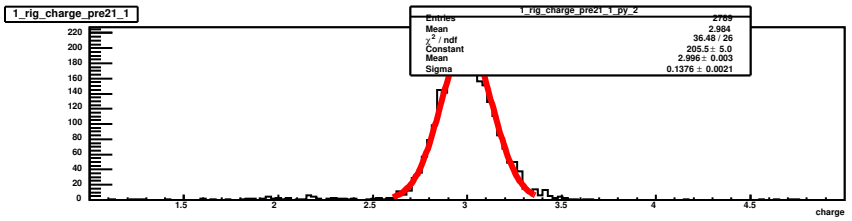


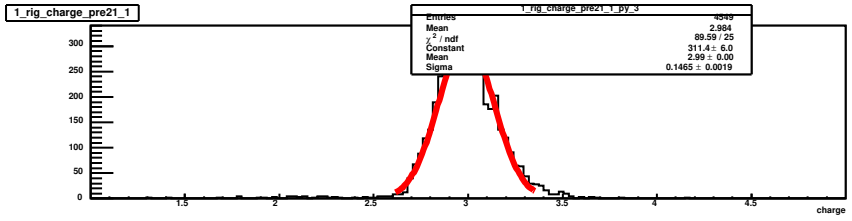
1_rig_charge_pre21_1 Lithium

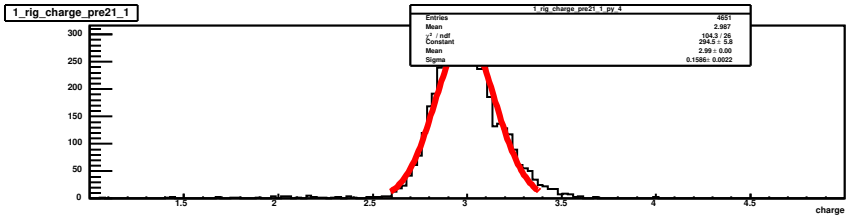


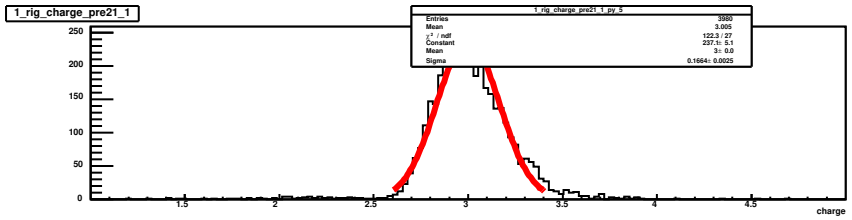

1_rig_charge_pre21_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

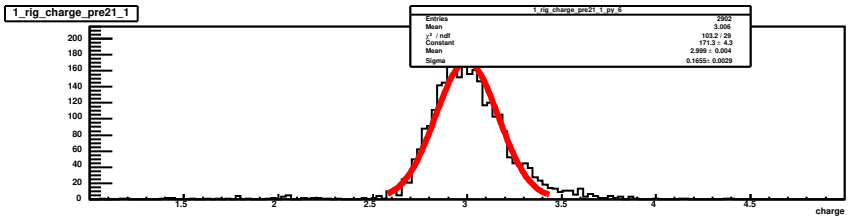

1_rig_charge_pre21_1
charge

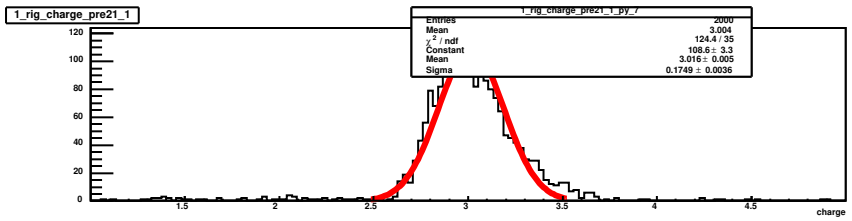

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_2
Entries 2789
Mean 2.994
χ² / ndf 36.48 / 26
Constant 205.5 ± 5.0
Mean 2.996 ± 0.003
Sigma 0.1376 ± 0.0021
charge

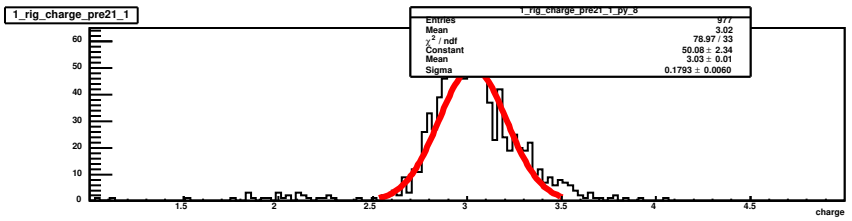

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_3
Entries 4549
Mean 2.984
χ² / ndf 89.59 / 25
Constant 311.4 ± 6.0
Mean 2.99 ± 0.00
Sigma 0.1465 ± 0.0019
charge

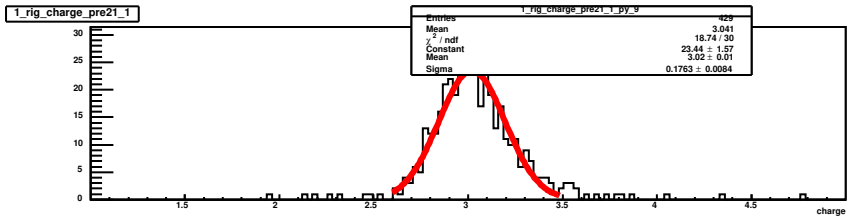

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_4
Entries 4651
Mean 2.987
χ² / ndf 104.3 / 26
Constant 294.5 ± 5.8
Mean 2.99 ± 0.00
Sigma 0.1586 ± 0.0022
charge

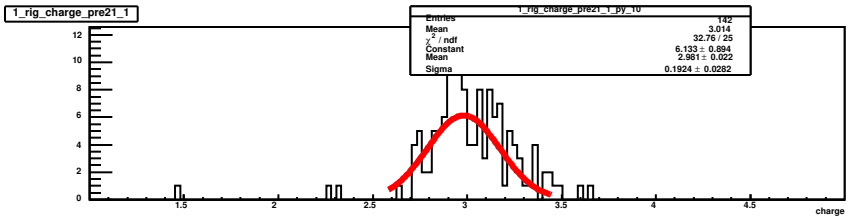

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_5
Entries 3980
Mean 3.005
χ² / ndf 122.3 / 27
Constant 237.1 ± 5.1
Mean 3 ± 0.0
Sigma 0.1664 ± 0.0025
charge

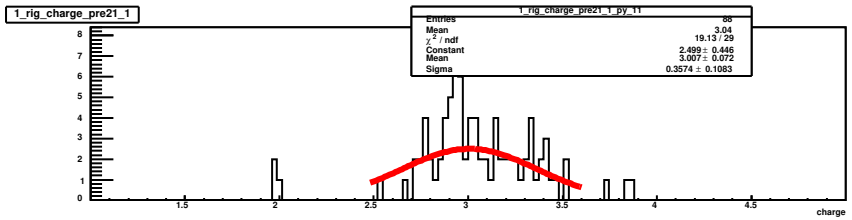

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_6
Entries 2902
Mean 3.006
χ² / ndf 103.2 / 29
Constant 171.3 ± 4.3
Mean 2.999 ± 0.004
Sigma 0.1655 ± 0.0029
charge


1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_7
Entries 2000
Mean 3.004
χ² / ndf 124.4 / 35
Constant 108.6 ± 3.3
Mean 3.016 ± 0.005
Sigma 0.1749 ± 0.0036
charge

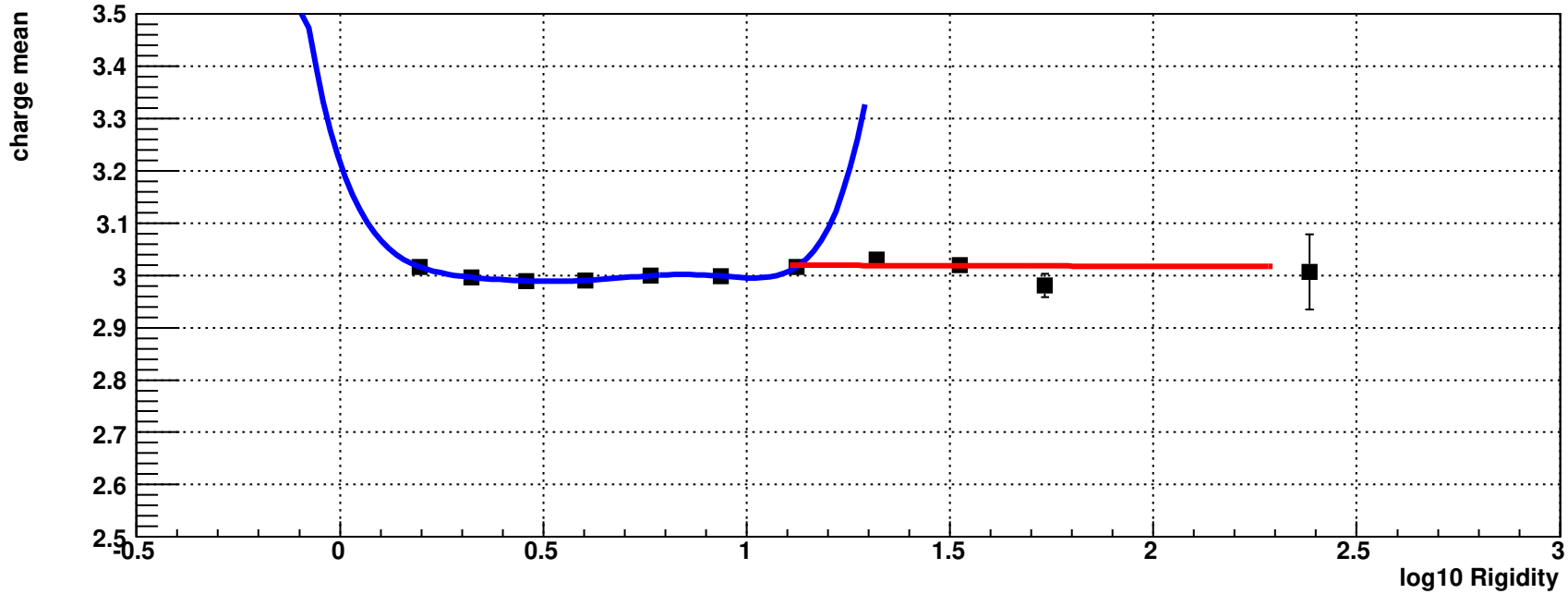

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_8
Entries 977
Mean 3.02
χ² / ndf 78.97 / 33
Constant 50.09 ± 2.34
Mean 3.03 ± 0.01
Sigma 0.1793 ± 0.0060
charge


1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_9
Entries 429
Mean 3.041
χ² / ndf 18.74 / 30
Constant 23.44 ± 1.57
Mean 3.02 ± 0.01
Sigma 0.1763 ± 0.0084
charge

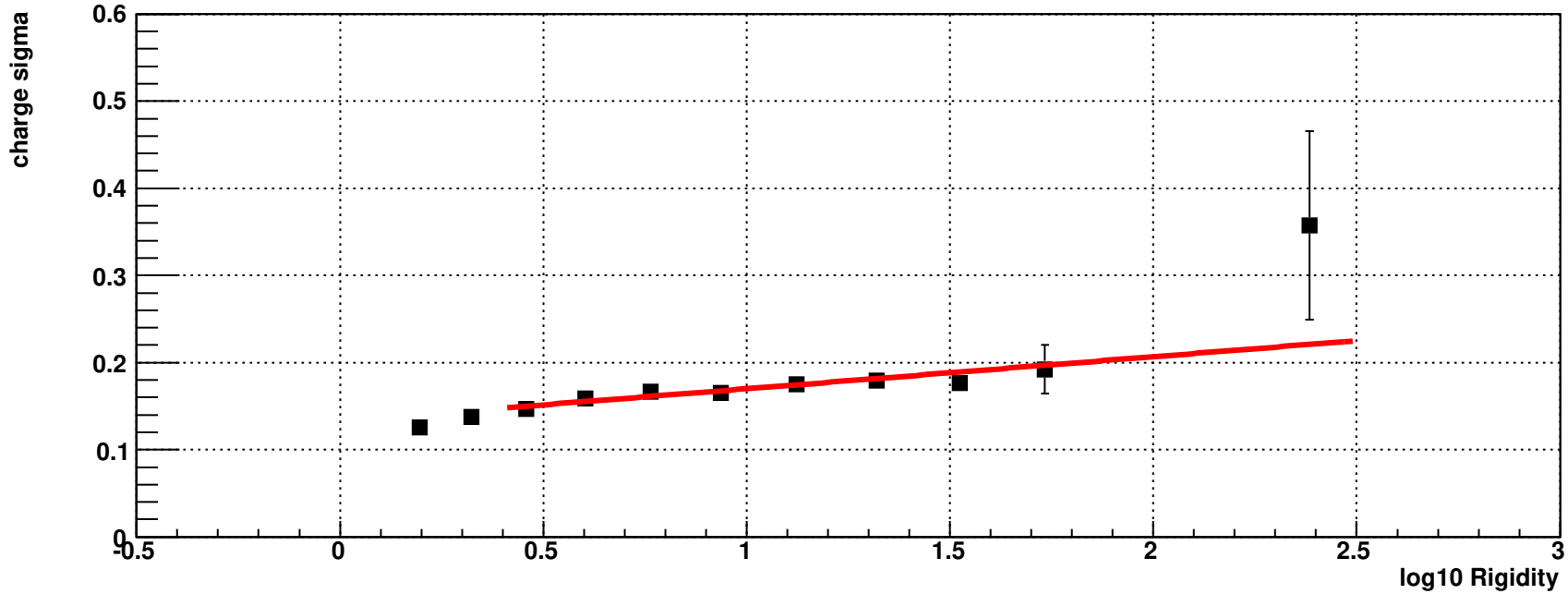

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_10
Entries 142
Mean 3.014
χ² / ndf 32.76 / 25
Constant 6.133 ± 0.894
Mean 2.981 ± 0.022
Sigma 0.1924 ± 0.0282
charge

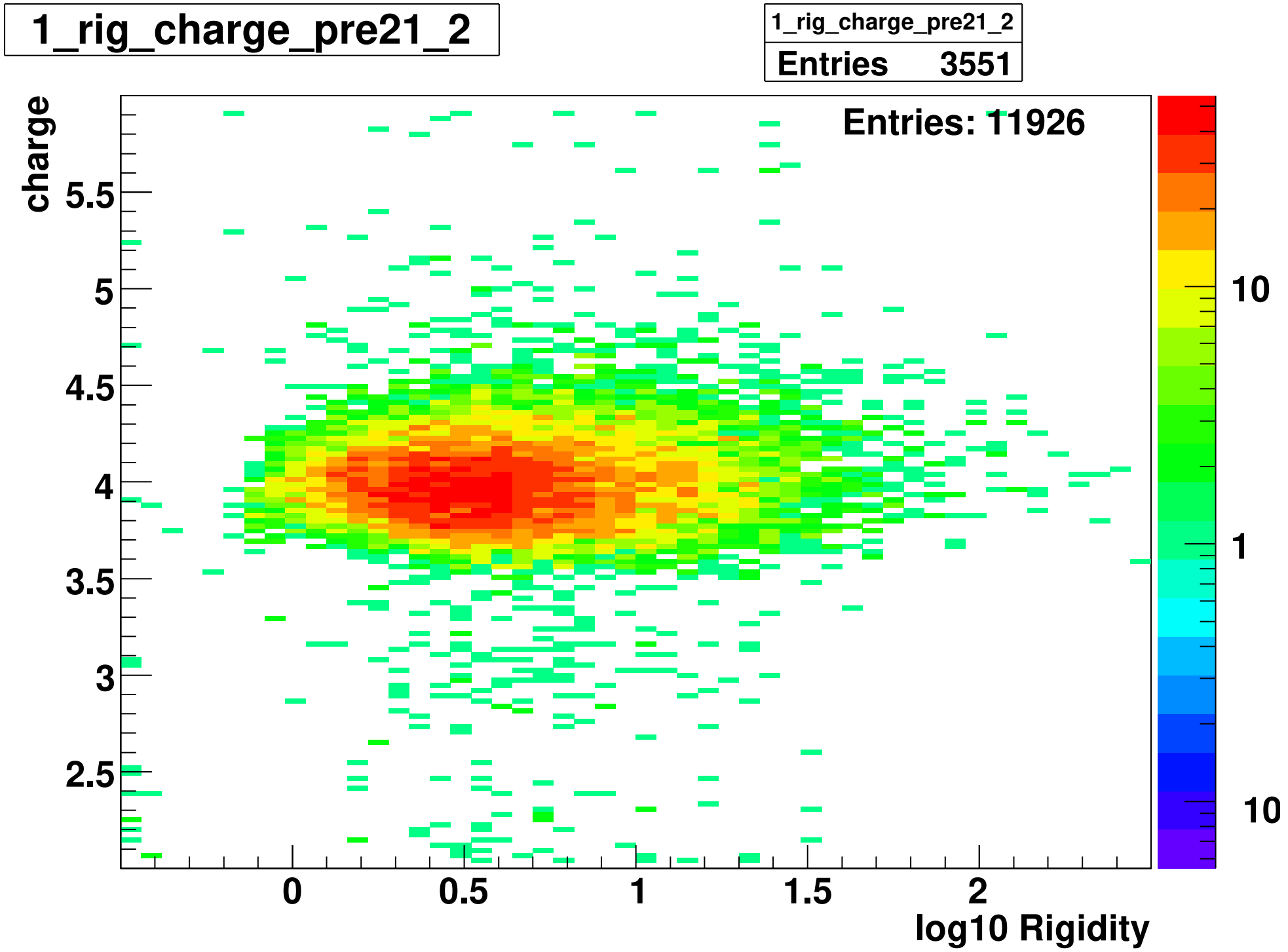

1_rig_charge_pre21_1
1_rig_charge_pre21_1_py_11
Entries 88
Mean 3.04
χ² / ndf 19.13 / 29
Constant 2.499 ± 0.446
Mean 3.007 ± 0.072
Sigma 0.3574 ± 0.1083
charge

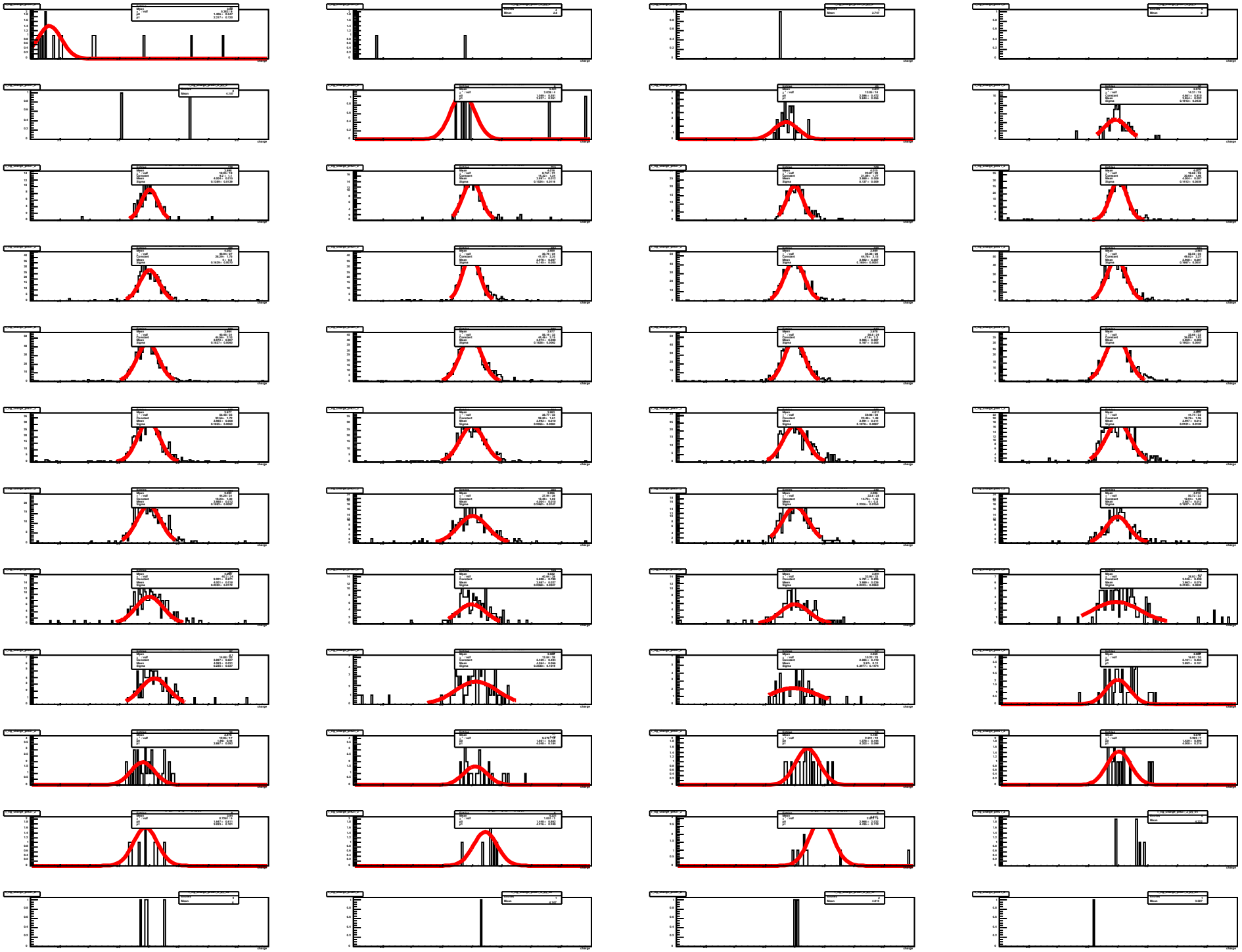
1_rig_charge_pre21_1 Lithium



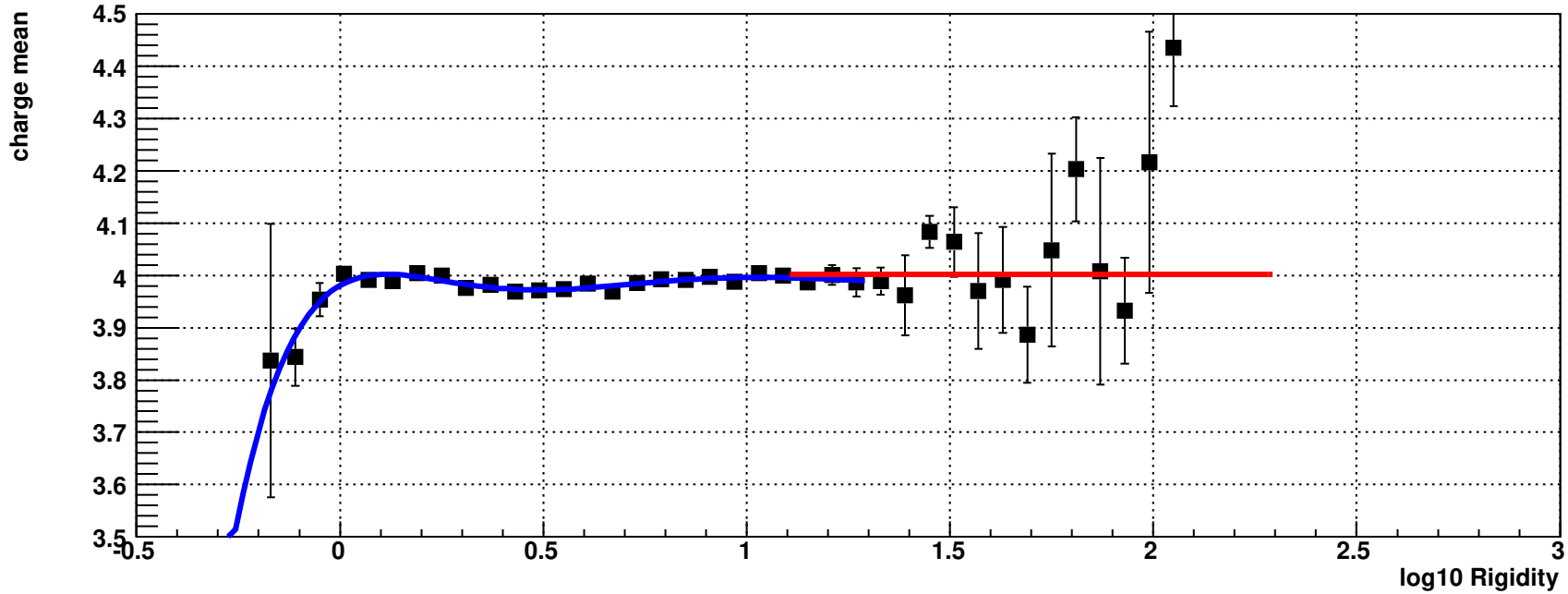
1_rig_charge_pre21_1 Lithium



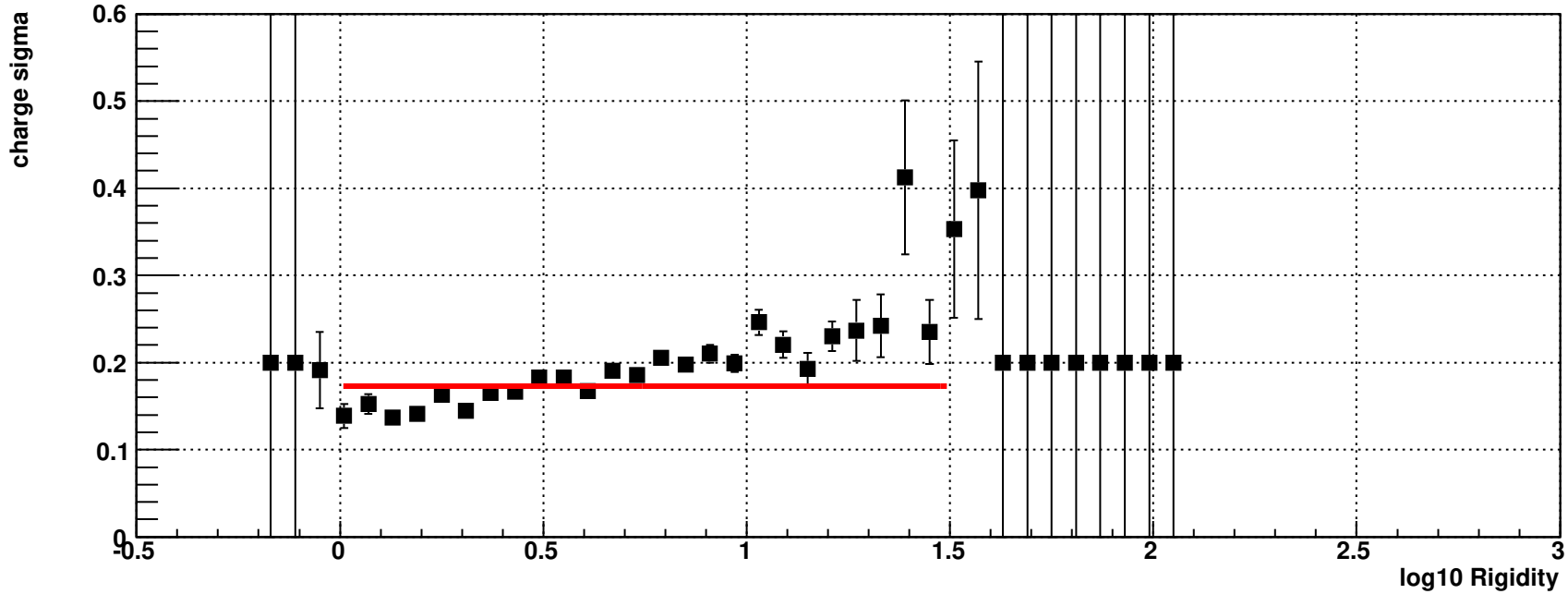

1_rig_charge_pre21_2
1_rig_charge_pre21_2
Entries 3551
Entries: 11926
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

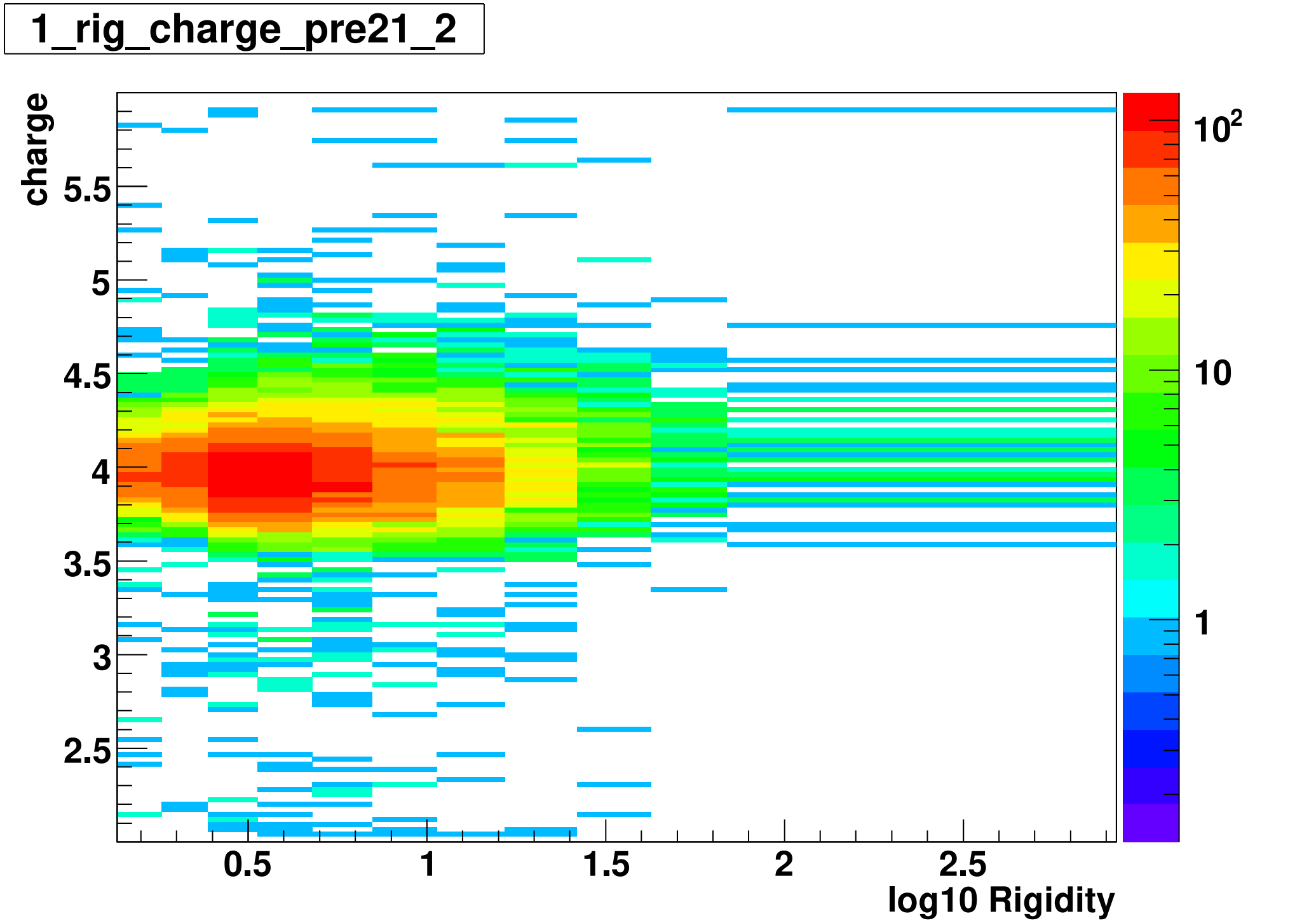


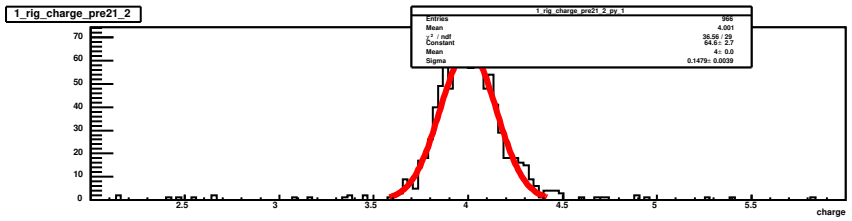
1_rig_charge_pre21_2 Beryllium

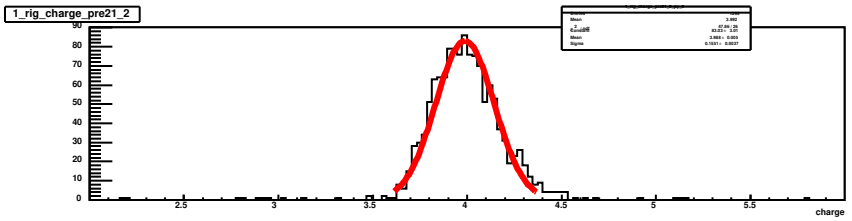


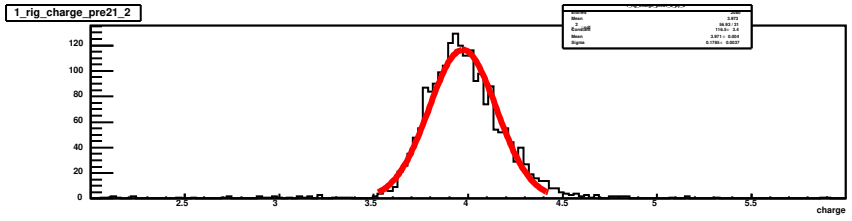
1_rig_charge_pre21_2 Beryllium

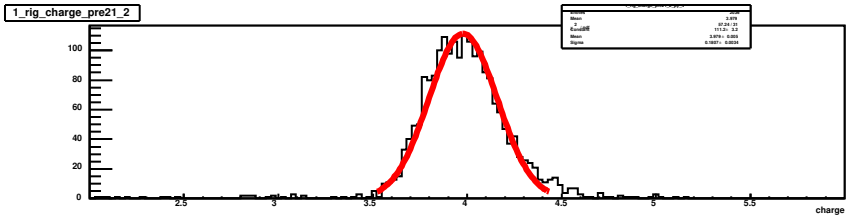


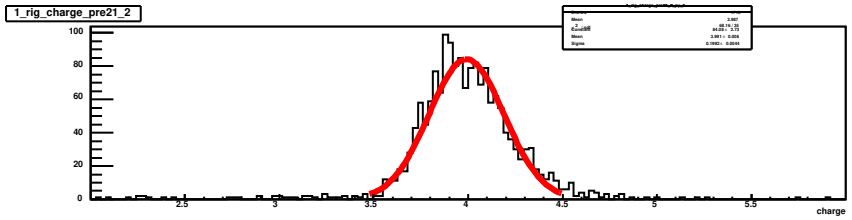

1_rig_charge_pre21_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

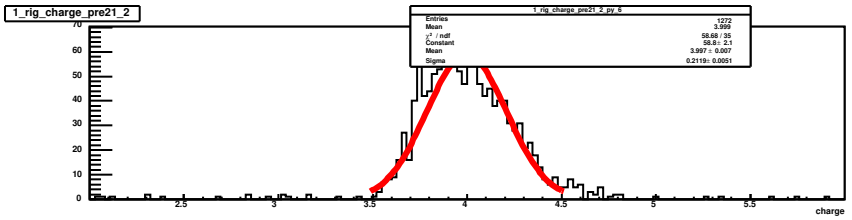

1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_1
Entries 966
Mean 4.001
χ² / ndf 36.56 / 29
Constant 64.5 ± 2.7
Mean 4 ± 0.0
Sigma 0.1479 ± 0.0039
charge

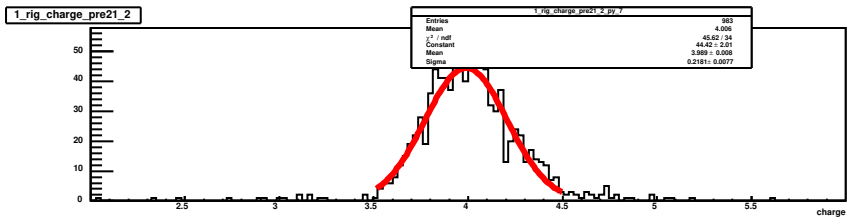

1_rig_charge_pre21_2
charge

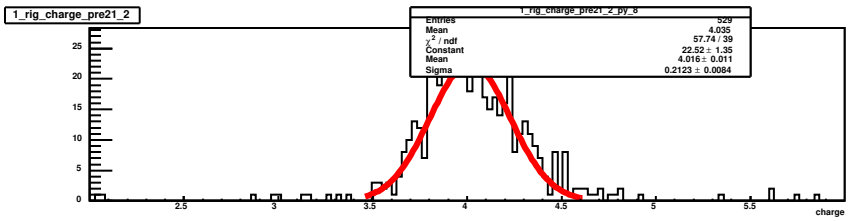

1_rig_charge_pre21_2
charge

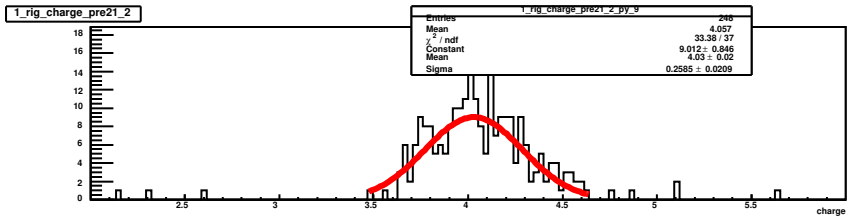

1_rig_charge_pre21_2
charge

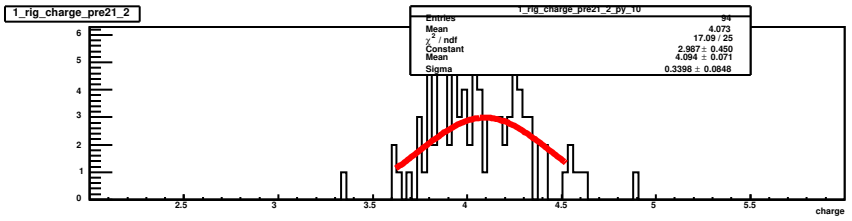

1_rig_charge_pre21_2
charge

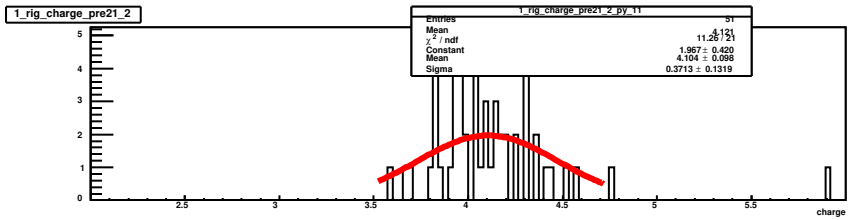

1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_6
Entries 1272
Mean 3.999
χ² / ndf 58.68 / 35
Constant 58.8 ± 2.1
Mean 3.997 ± 0.007
Sigma 0.2119 ± 0.0051
charge


1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_7
Entries 983
Mean 4.006
χ² / ndf 45.62 / 34
Constant 44.42 ± 2.01
Mean 3.989 ± 0.008
Sigma 0.2181 ± 0.0077
charge

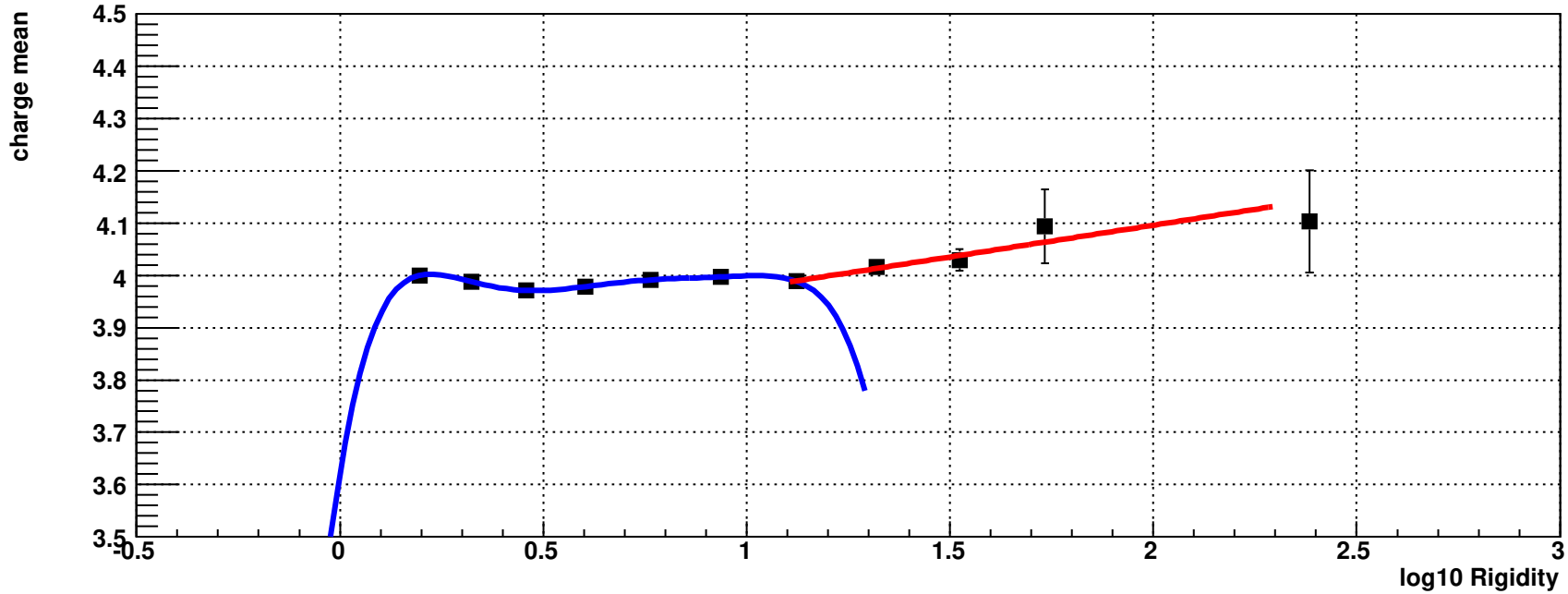

1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_8
Entries 529
Mean 4.035
χ² / ndf 57.74 / 39
Constant 22.52 ± 1.35
Mean 4.016 ± 0.011
Sigma 0.2123 ± 0.0084
charge


1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_9
Entries 248
Mean 4.057
χ² / ndf 33.38 / 37
Constant 9.012 ± 0.846
Mean 4.03 ± 0.02
Sigma 0.2585 ± 0.0209
charge

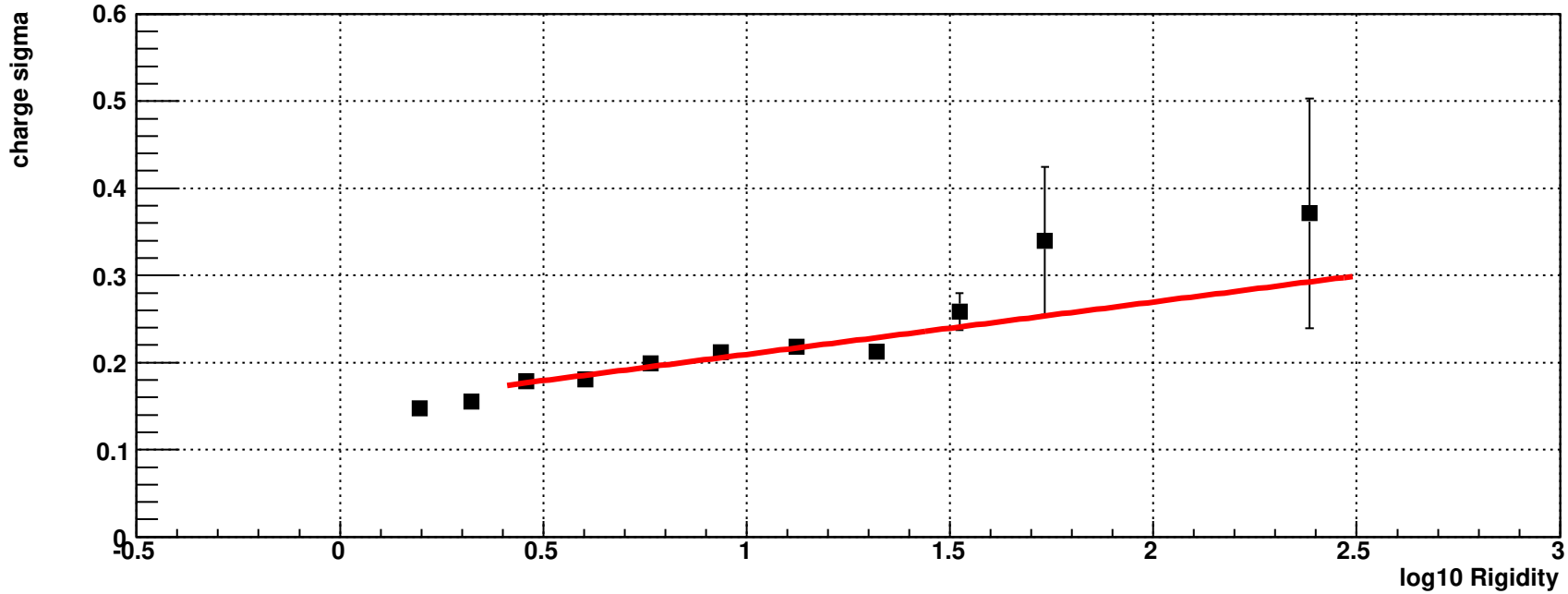

1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_10
Entries 94
Mean 4.073
χ² / ndf 17.09 / 25
Constant 2.987 ± 0.450
Mean 4.094 ± 0.071
Sigma 0.3398 ± 0.0848
charge

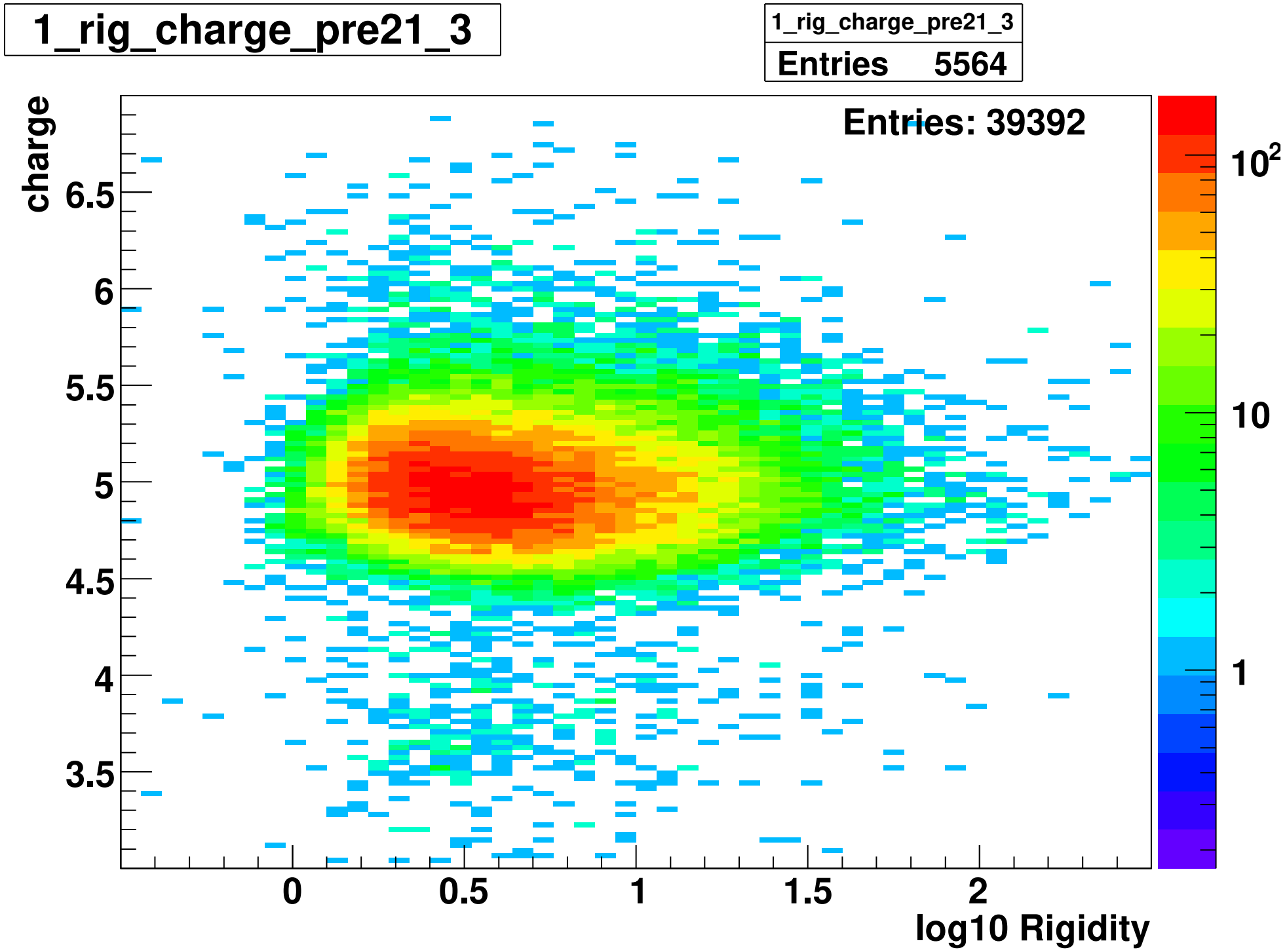

1_rig_charge_pre21_2
1_rig_charge_pre21_2_py_11
Entries 51
Mean 4.121
χ² / ndf 11.26 / 21
Constant 1.967 ± 0.420
Mean 4.104 ± 0.098
Sigma 0.3713 ± 0.1319
charge

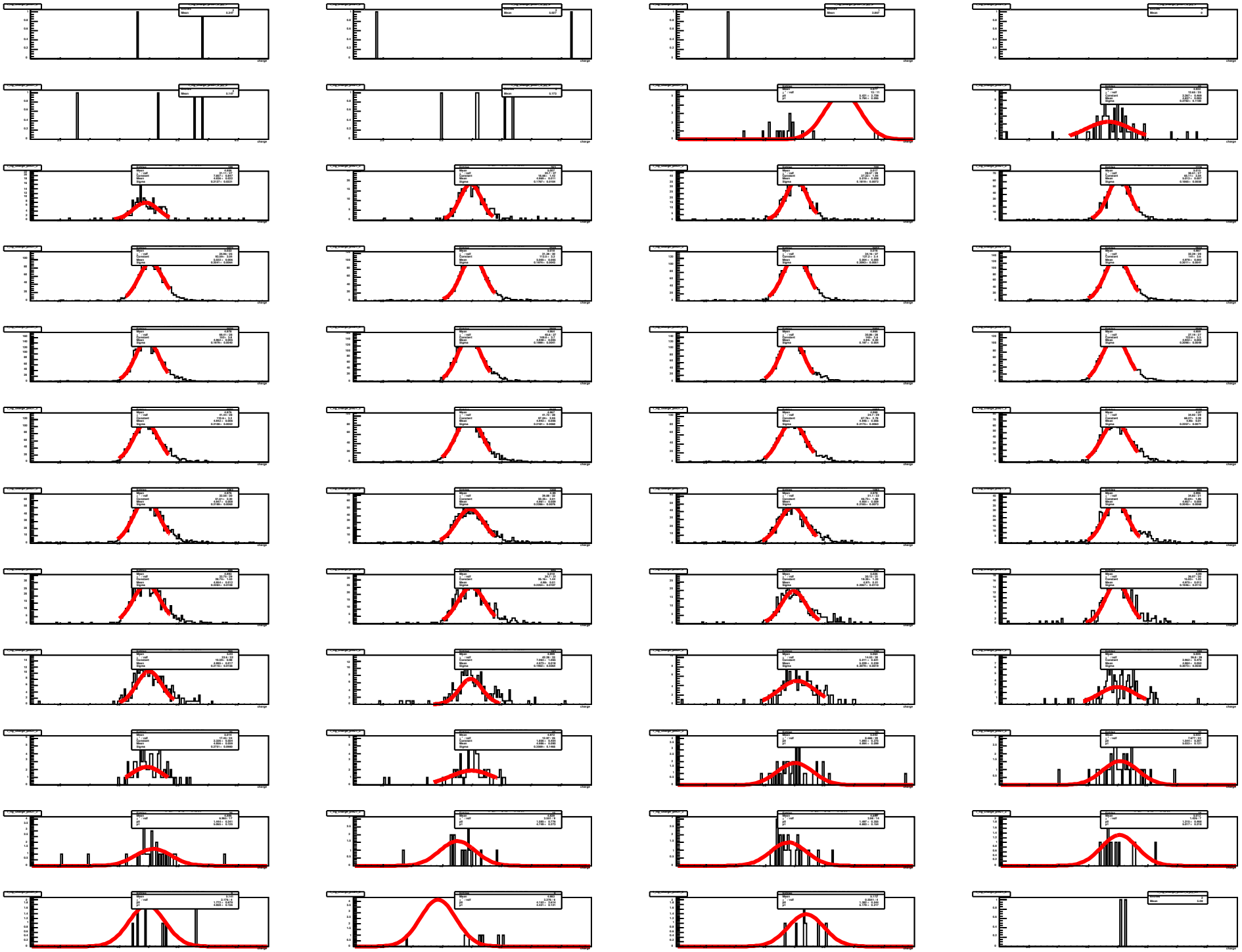
1_rig_charge_pre21_2 Beryllium



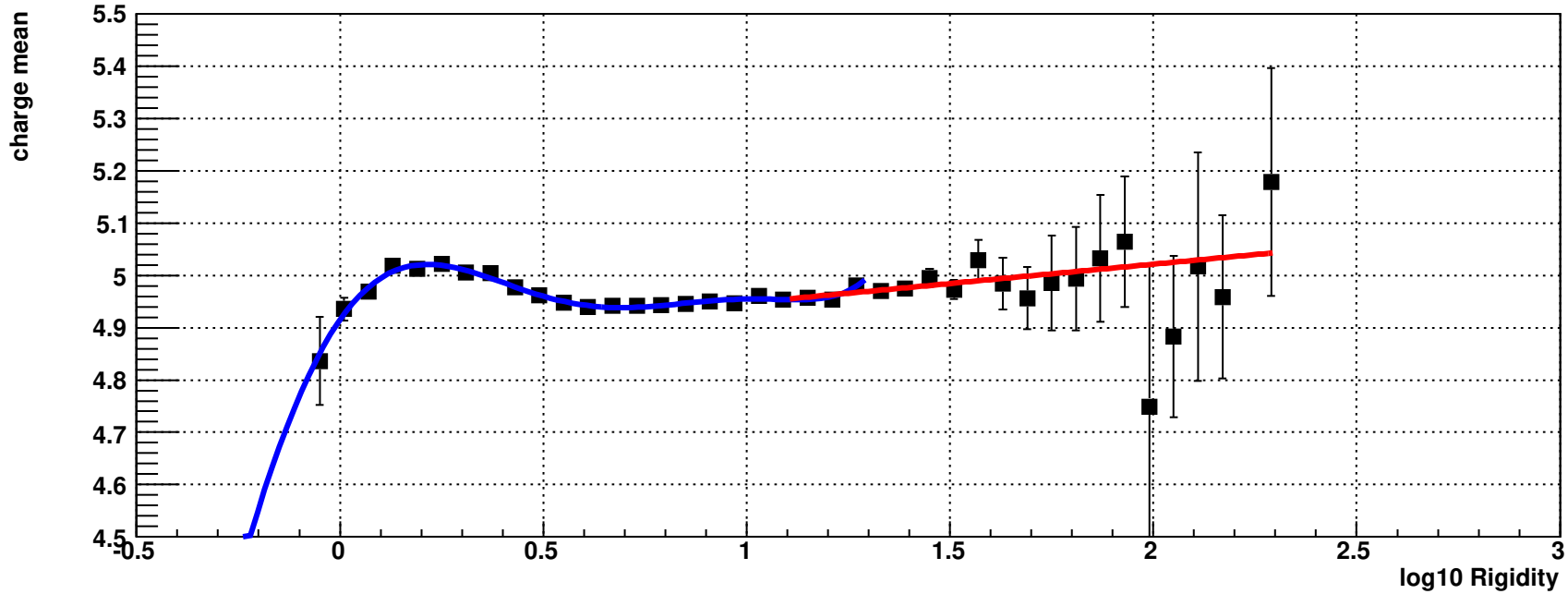
1_rig_charge_pre21_2 Beryllium



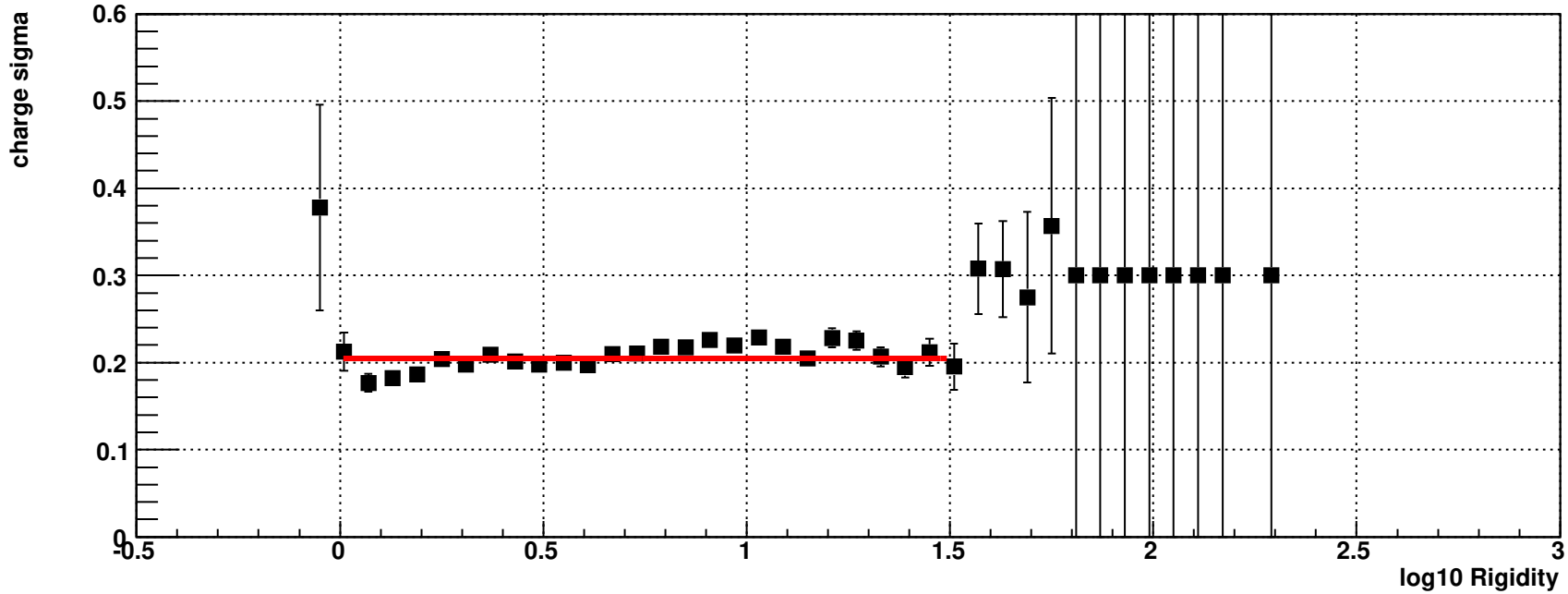

1_rig_charge_pre21_3
1_rig_charge_pre21_3
Entries 5564
Entries: 39392
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

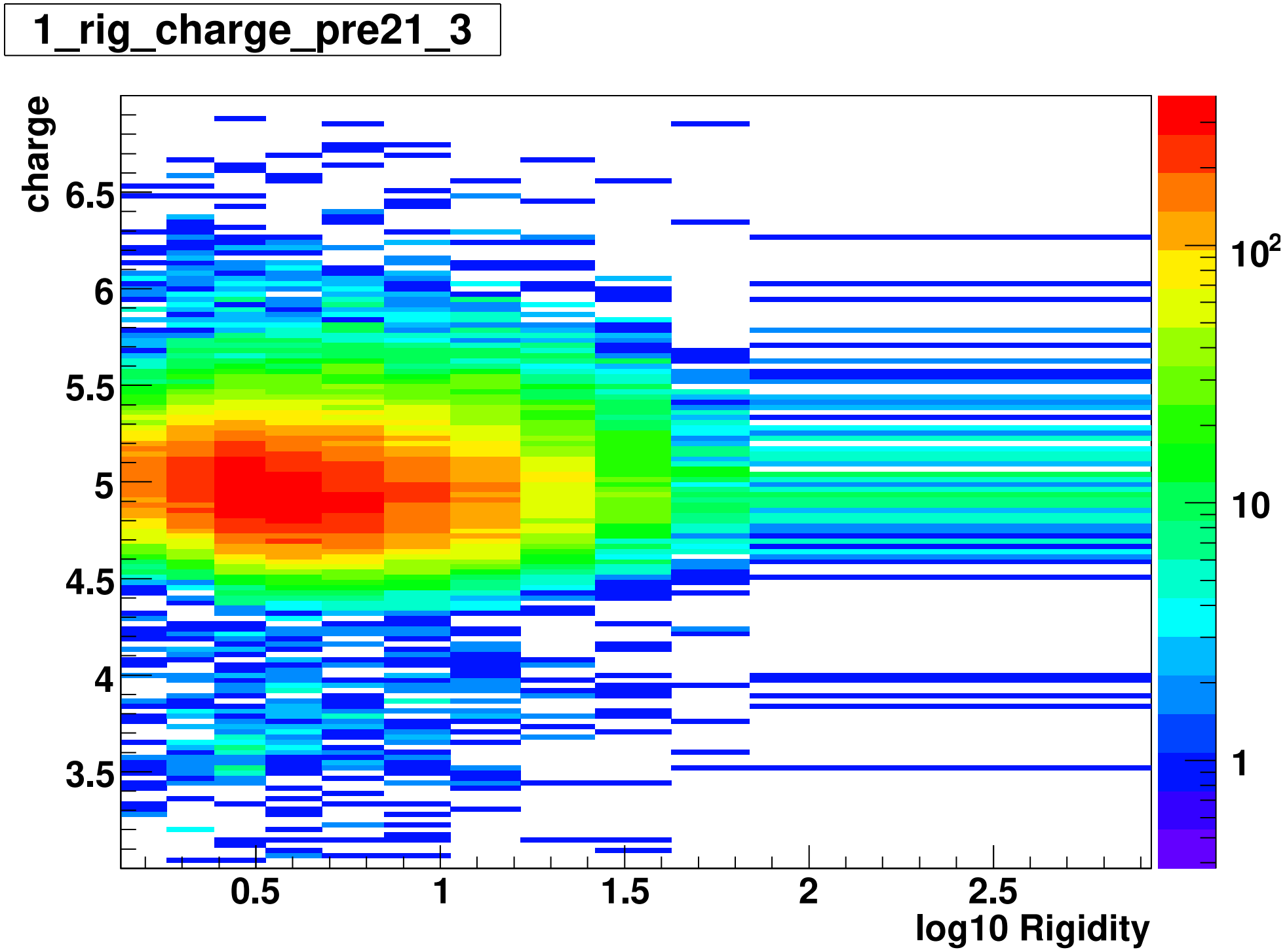


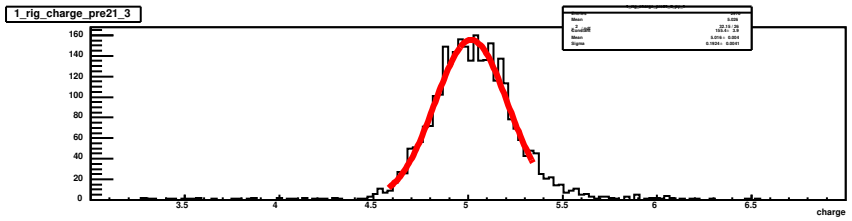
1_rig_charge_pre21_3 Boron

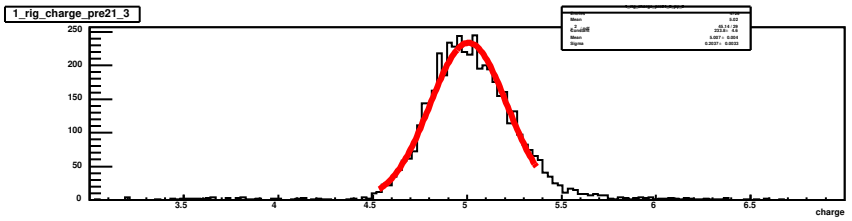


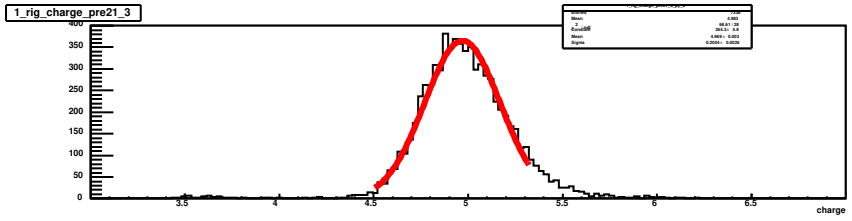
1_rig_charge_pre21_3 Boron

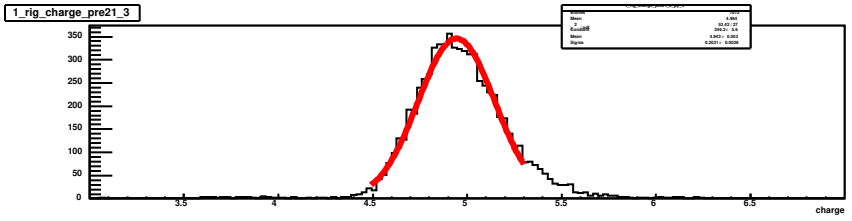


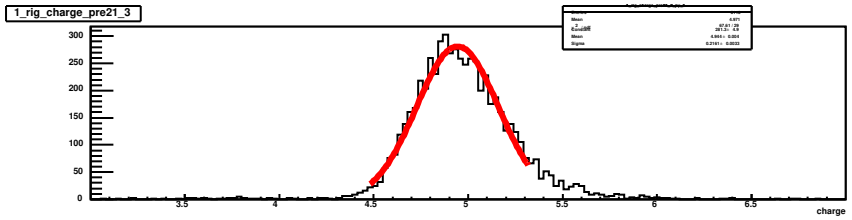

1_rig_charge_pre21_3
charge
6.5
6
5.5
5
4.5
4
3.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

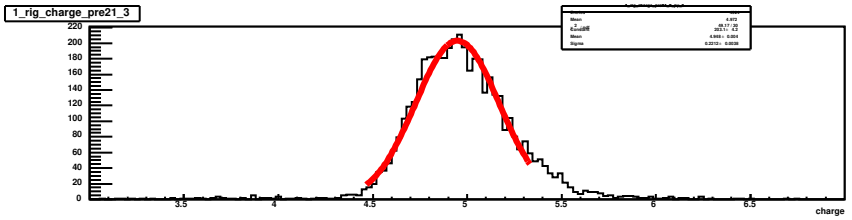

1_rig_charge_pre21_3
charge

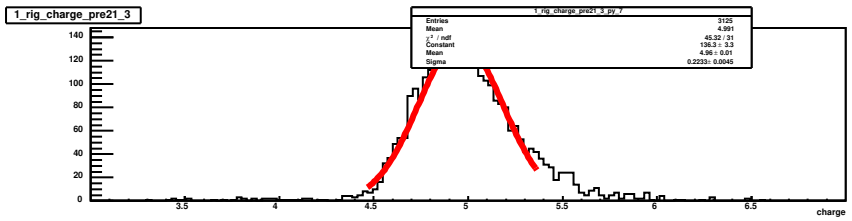

1_rig_charge_pre21_3
charge

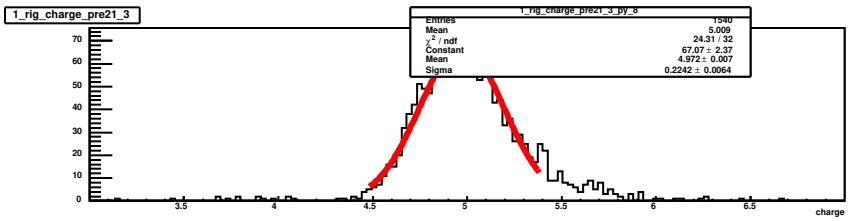

1_rig_charge_pre21_3
charge

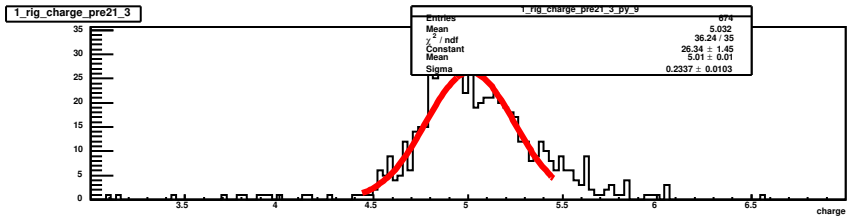

1_rig_charge_pre21_3
charge

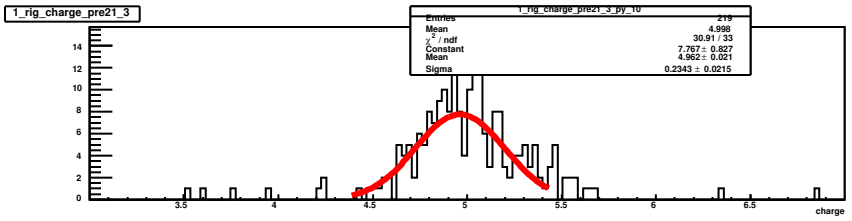

1_rig_charge_pre21_3
charge

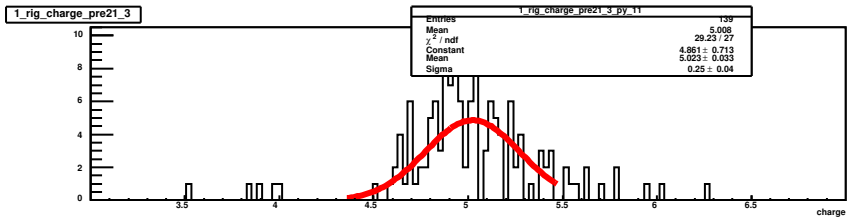

1_rig_charge_pre21_3
charge


1_rig_charge_pre21_3
1_rig_charge_pre21_3_py_7
Entries 3125
Mean 4.991
χ² / ndf 45.32 / 31
Constant 136.3 ± 3.3
Mean 4.96 ± 0.01
Sigma 0.2233 ± 0.0045
charge

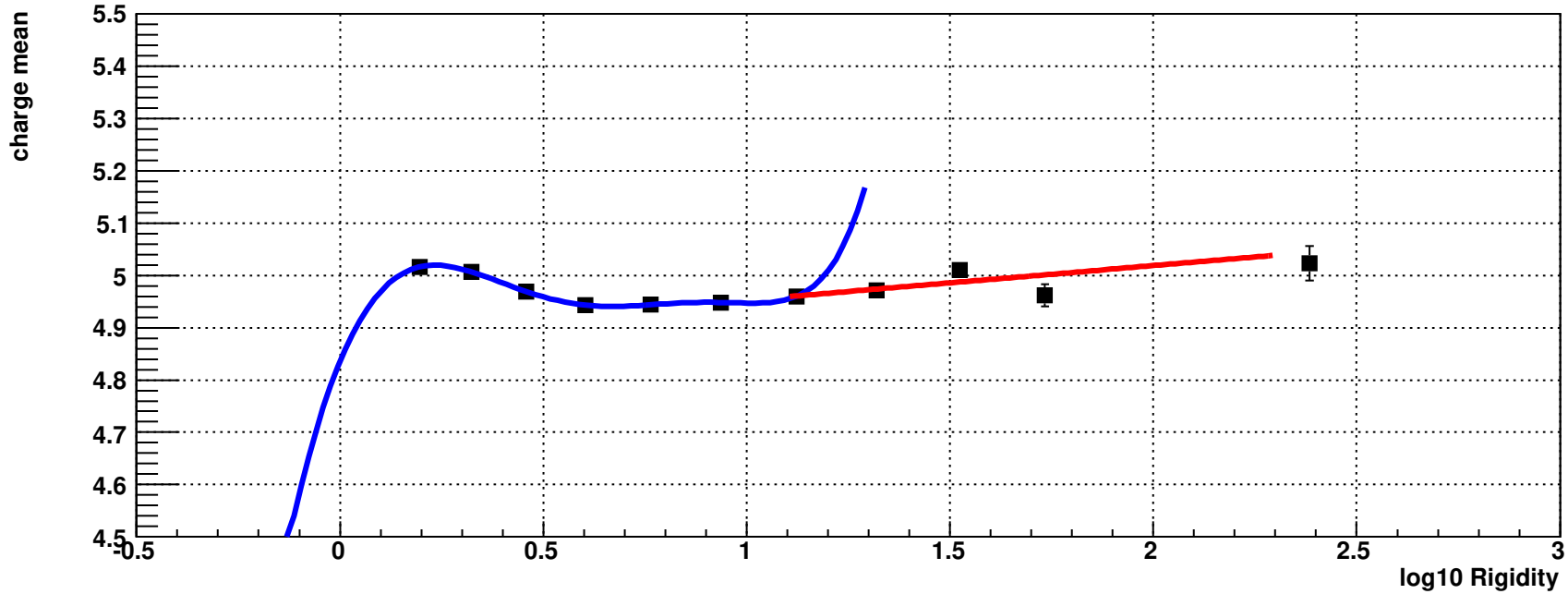

1_rig_charge_pre21_3
1_rig_charge_pre21_3_py_8
Entries 1540
Mean 5.009
χ² / ndf 24.31 / 32
Constant 67.07 ± 2.37
Mean 4.972 ± 0.007
Sigma 0.2242 ± 0.0064
charge


1_rig_charge_pre21_3
1_rig_charge_pre21_3_py_9
Entries 874
Mean 5.032
χ² / ndf 36.24 / 35
Constant 26.34 ± 1.45
Mean 5.01 ± 0.01
Sigma 0.2337 ± 0.0103
charge

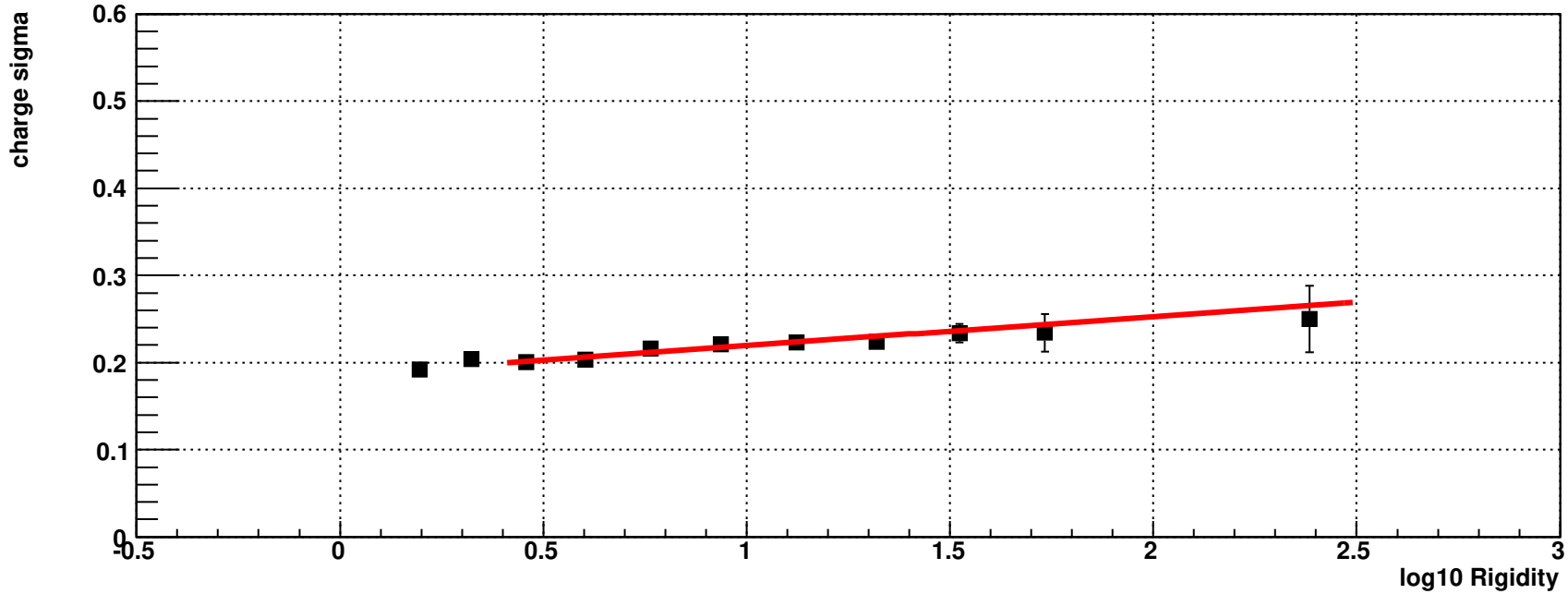

1_rig_charge_pre21_3
1_rig_charge_pre21_3_py_10
Entries 219
Mean 4.998
χ² / ndf 30.91 / 33
Constant 7.767 ± 0.827
Mean 4.962 ± 0.021
Sigma 0.2343 ± 0.0215
charge

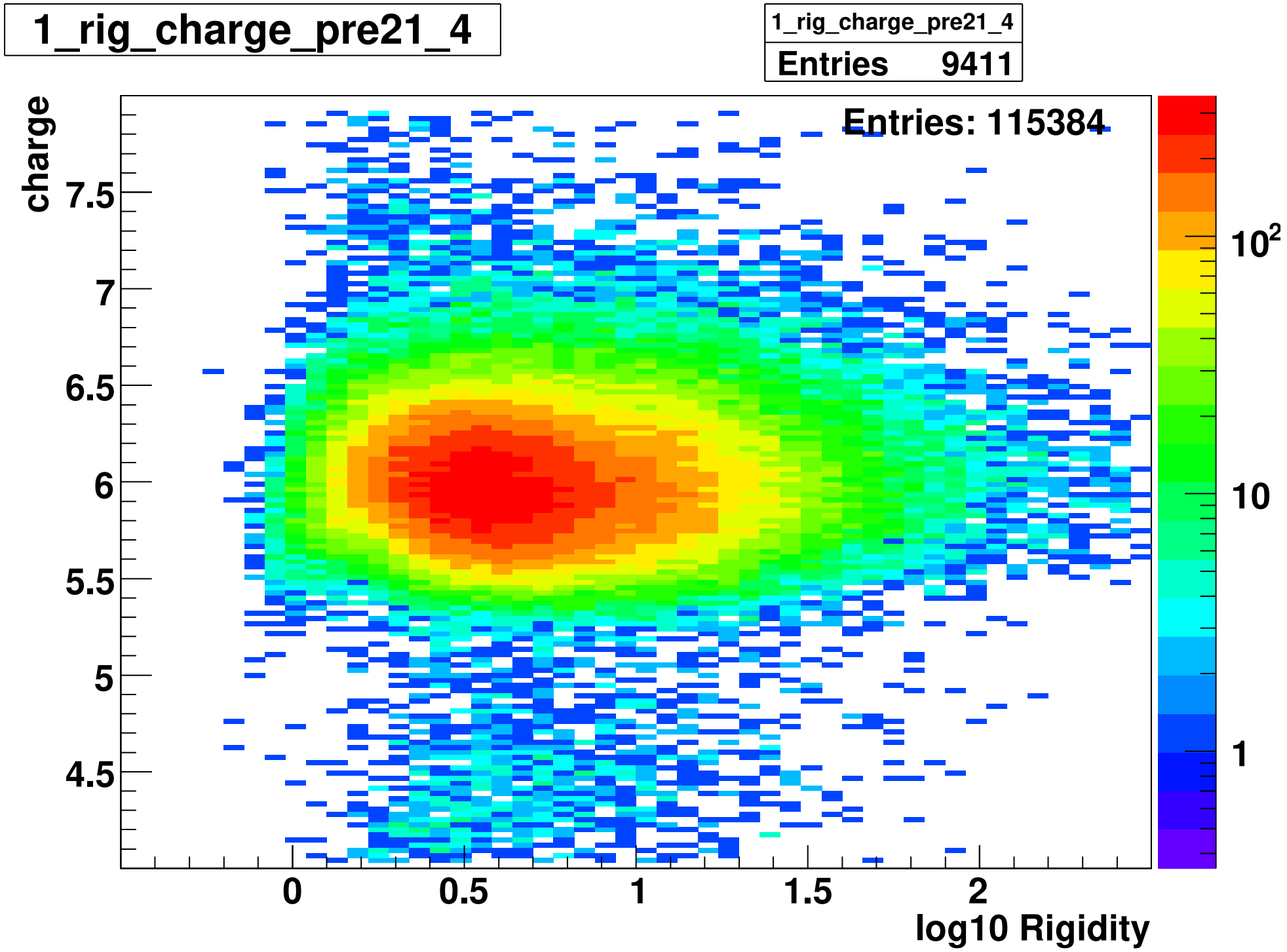

1_rig_charge_pre21_3
1_rig_charge_pre21_3_py_11
Entries 139
Mean 5.008
χ² / ndf 29.23 / 27
Constant 4.861 ± 0.713
Mean 5.023 ± 0.033
Sigma 0.25 ± 0.04
charge

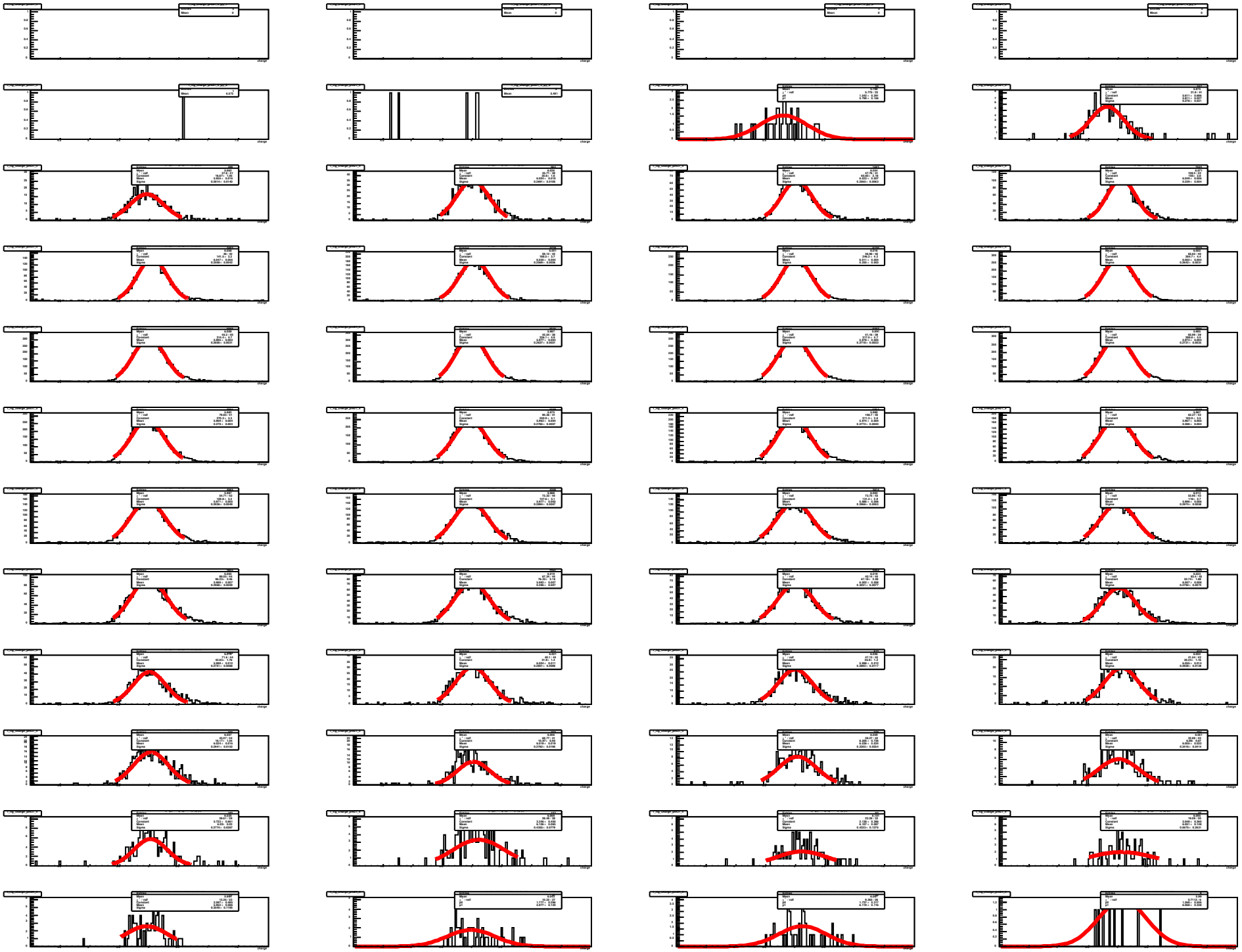
1_rig_charge_pre21_3 Boron



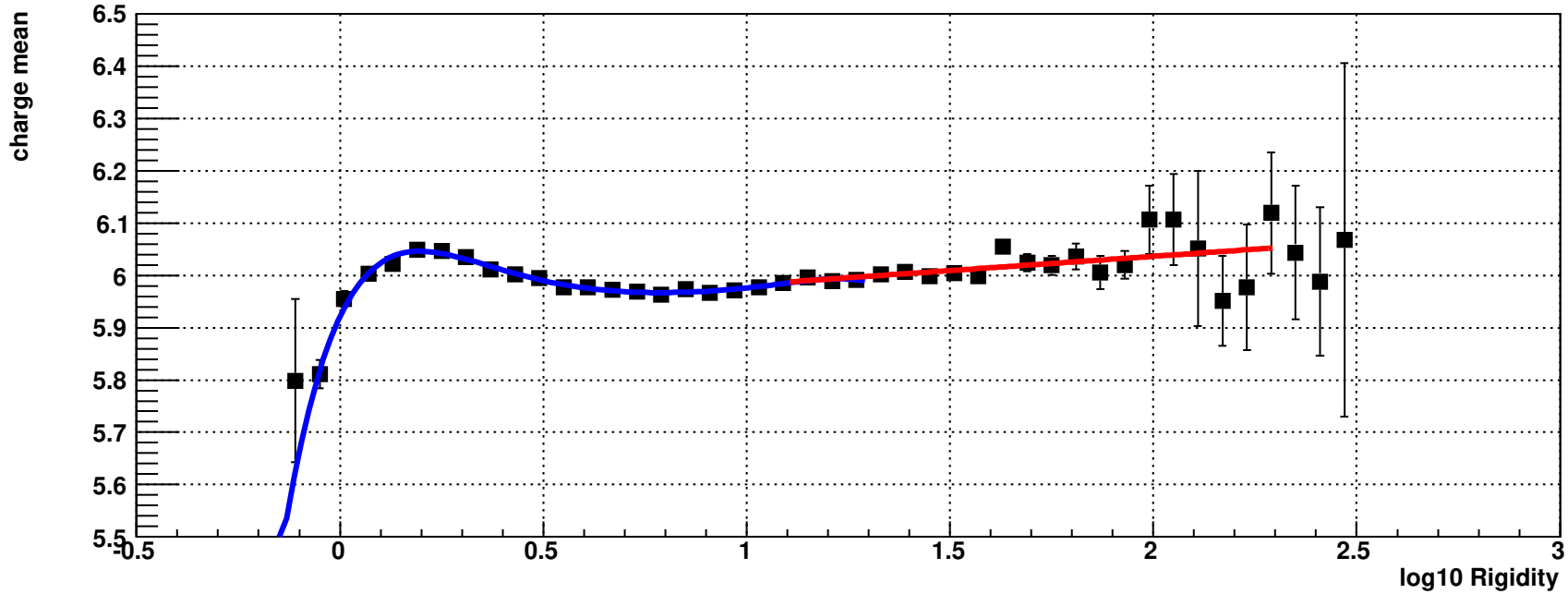
1_rig_charge_pre21_3 Boron



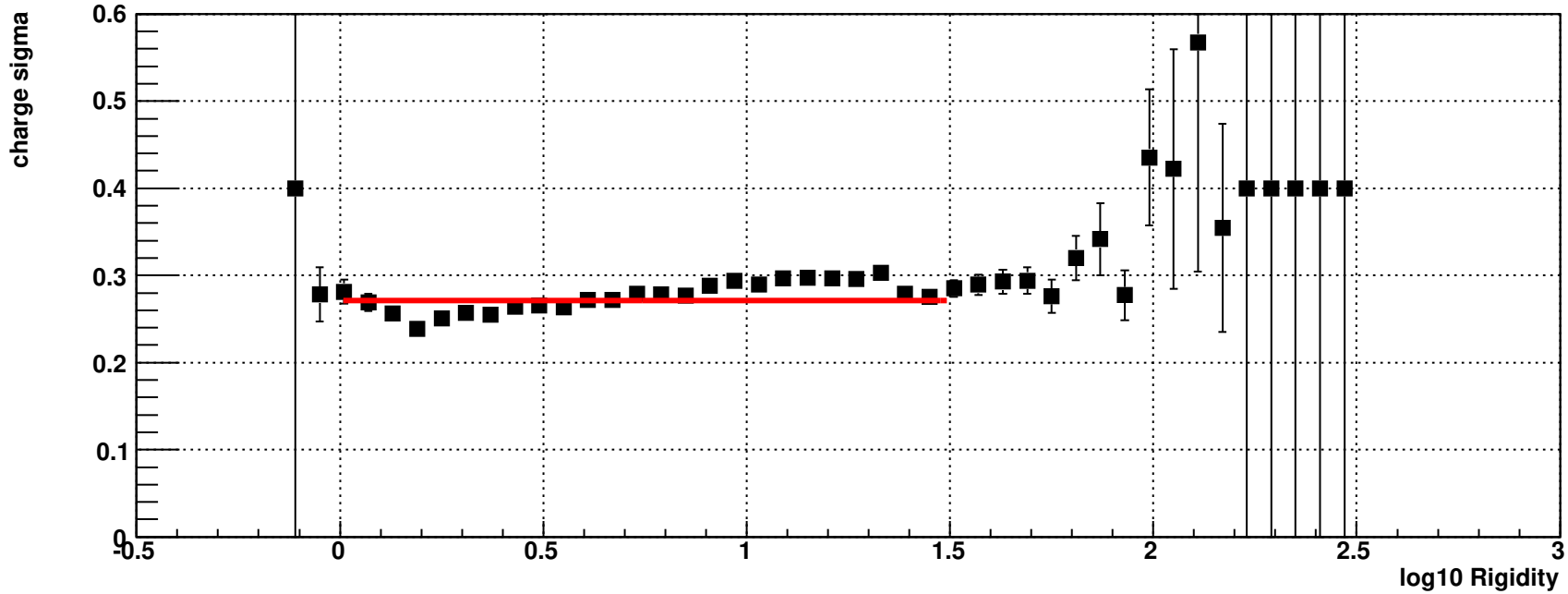

1_rig_charge_pre21_4
1_rig_charge_pre21_4
Entries 9411
Entries: 115384
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



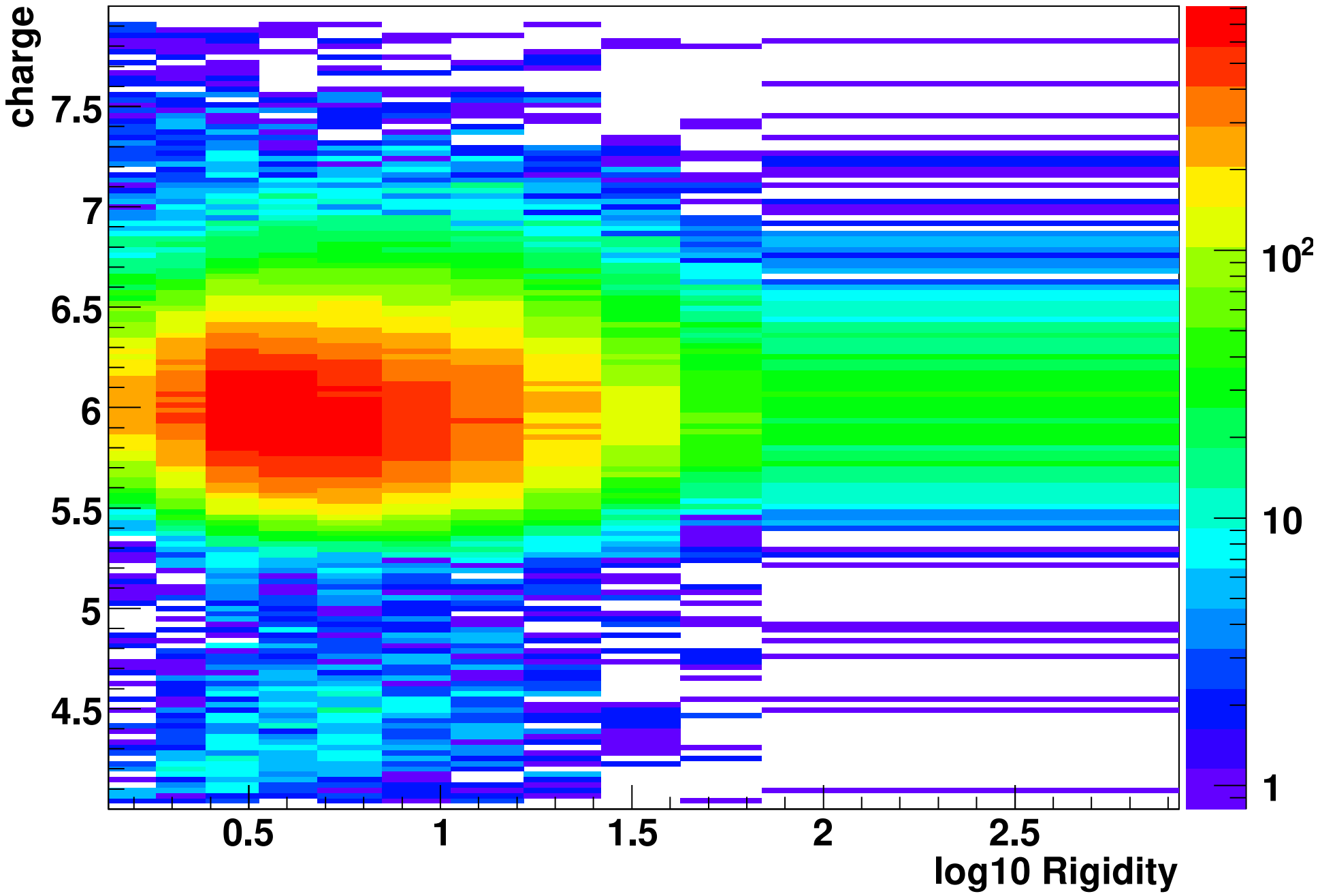
1_rig_charge_pre21_4 Carbon

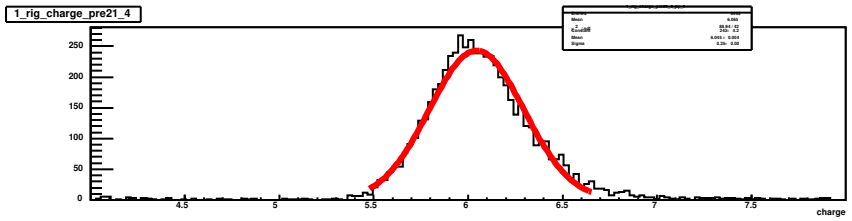


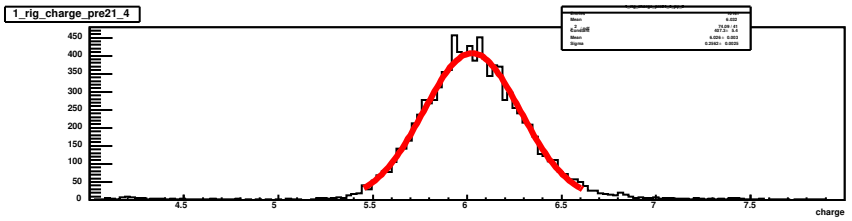
1_rig_charge_pre21_4 Carbon

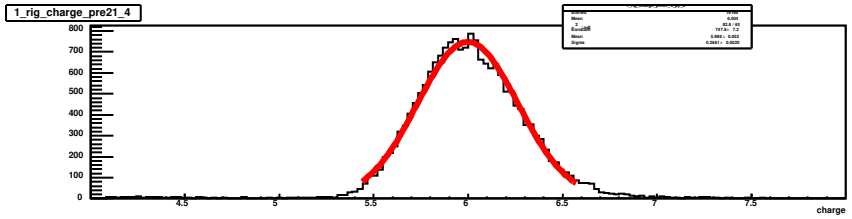


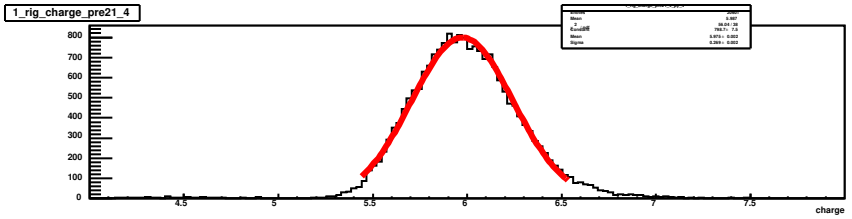
1_rig_charge_pre21_4

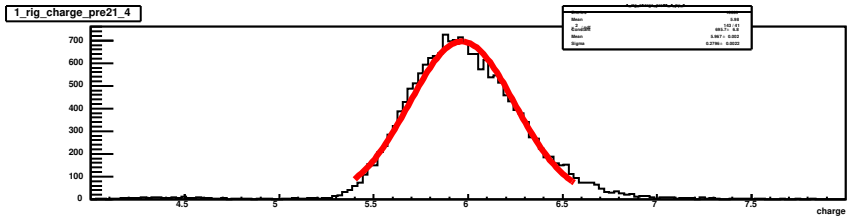


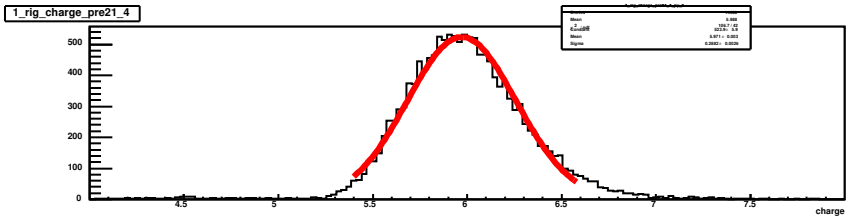

1_rig_charge_pre21_4
charge

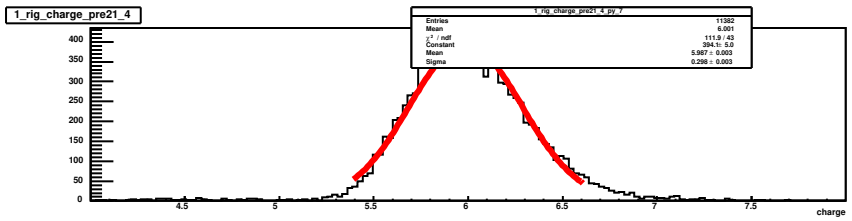

1_rig_charge_pre21_4
charge

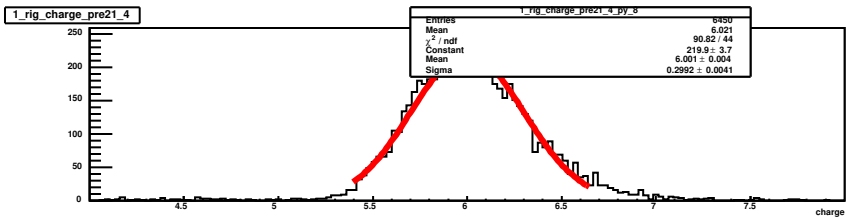

1_rig_charge_pre21_4
charge

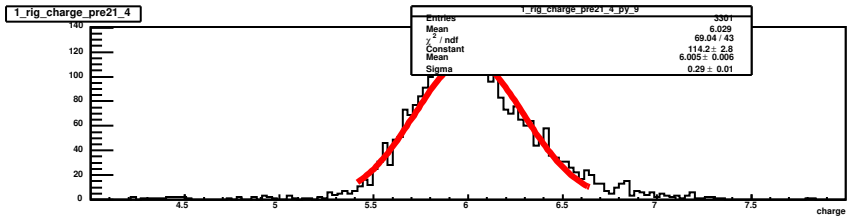

1_rig_charge_pre21_4
charge

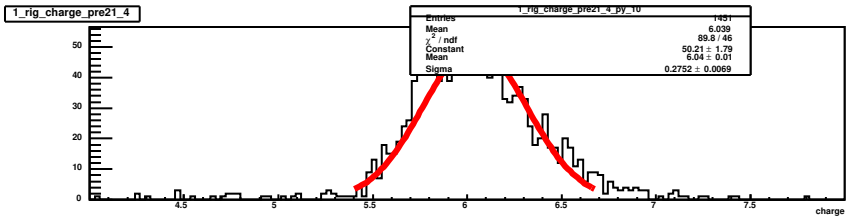

1_rig_charge_pre21_4
charge

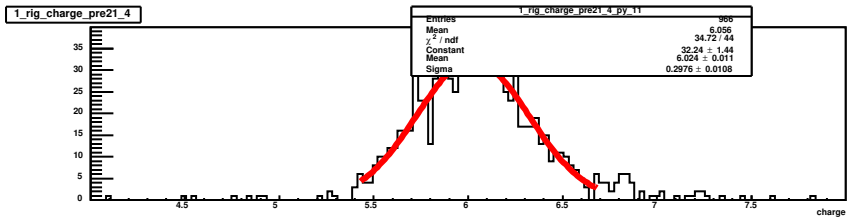

1_rig_charge_pre21_4
charge


1_rig_charge_pre21_4
1_rig_charge_pre21_4_py_7
Entries 11382
Mean 6.001
χ² / ndf 111.9 / 43
Constant 394.1± 5.0
Mean 5.987 ± 0.003
Sigma 0.298 ± 0.003
charge

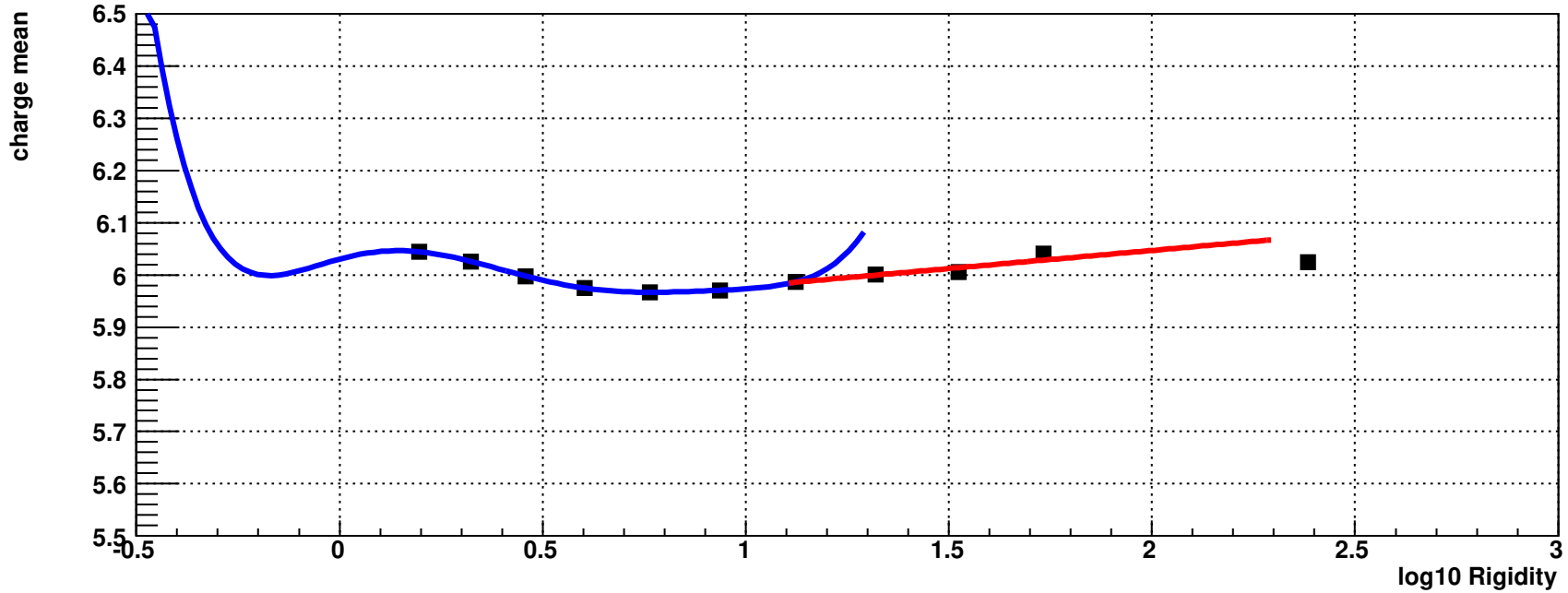

1_rig_charge_pre21_4
1_rig_charge_pre21_4_py_8
Entries 6450
Mean 6.021
χ² / ndf 90.82 / 44
Constant 219.9± 3.7
Mean 6.001 ± 0.004
Sigma 0.2992 ± 0.0041
charge


1_rig_charge_pre21_4
1_rig_charge_pre21_4_py_9
Entries 3301
Mean 6.029
χ² / ndf 69.04 / 43
Constant 114.2± 2.8
Mean 6.005 ± 0.006
Sigma 0.29 ± 0.01
charge

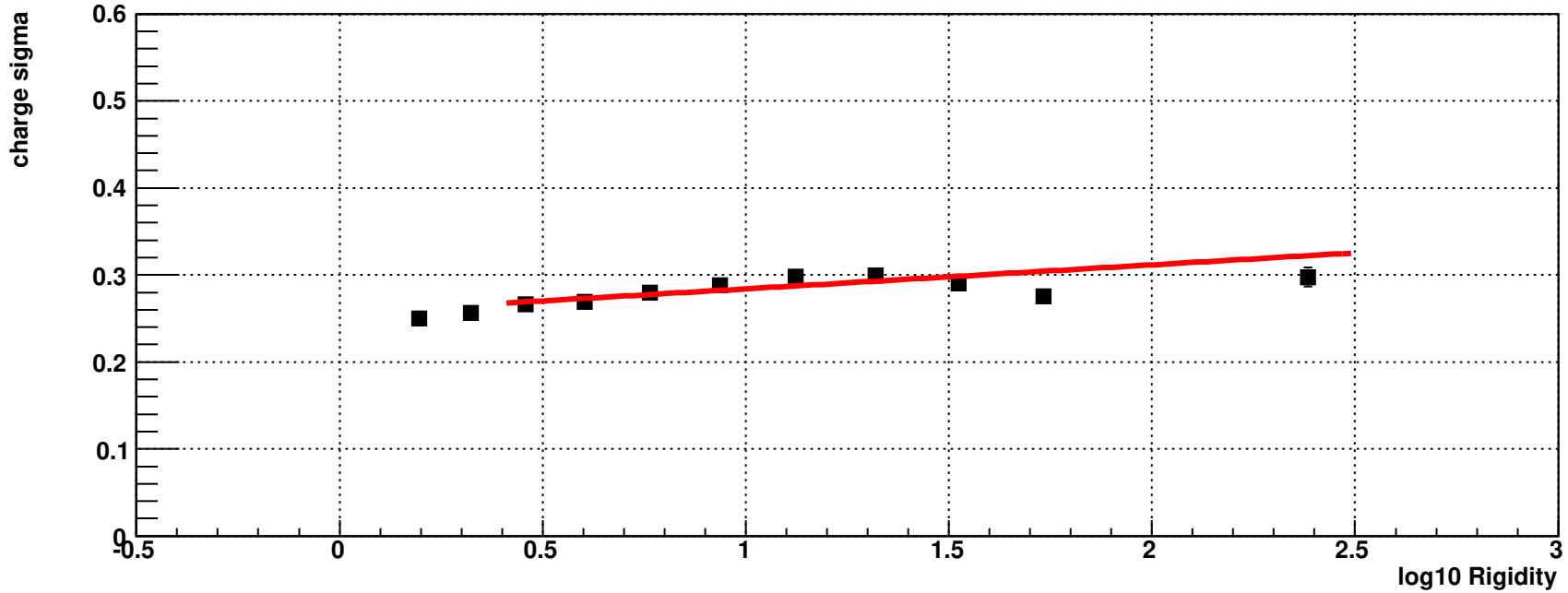

1_rig_charge_pre21_4
1_rig_charge_pre21_4_py_10
Entries 1451
Mean 6.039
χ² / ndf 89.8 / 46
Constant 50.21 ± 1.79
Mean 6.04 ± 0.01
Sigma 0.2752 ± 0.0069
charge

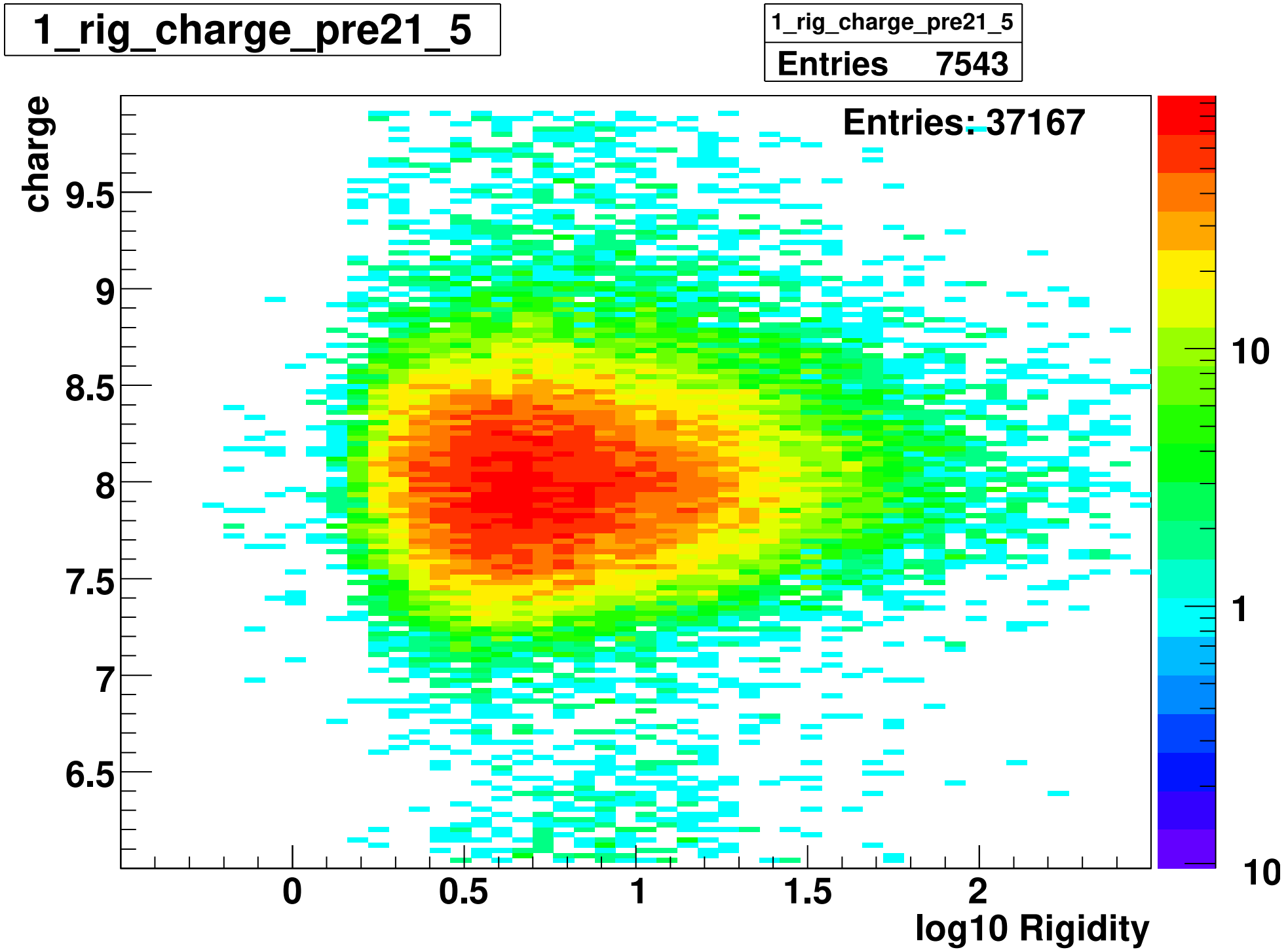

1_rig_charge_pre21_4
1_rig_charge_pre21_4_py_11
Entries 966
Mean 6.056
χ² / ndf 34.72 / 44
Constant 32.24 ± 1.44
Mean 6.024 ± 0.011
Sigma 0.2976 ± 0.0108
charge

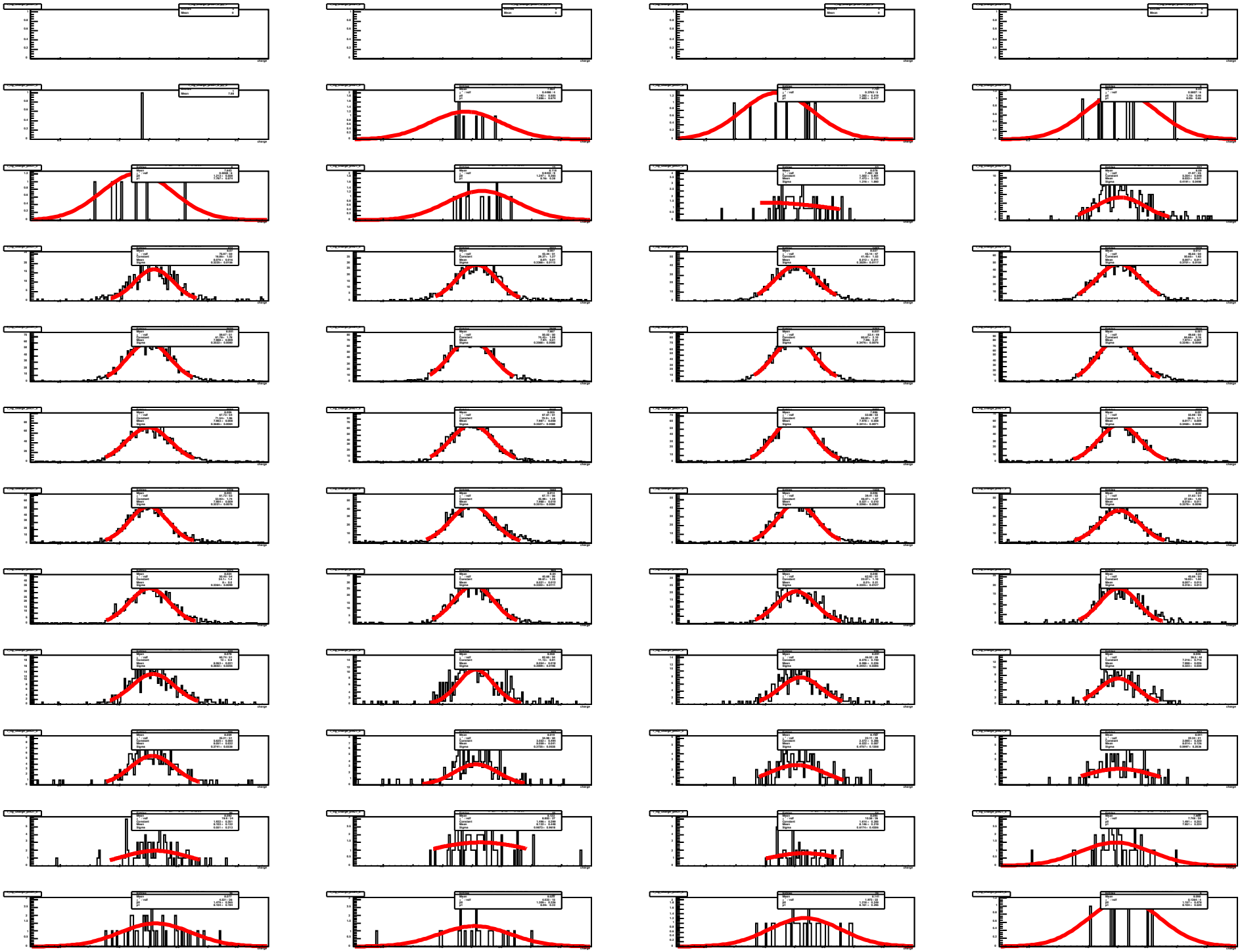
1_rig_charge_pre21_4 Carbon



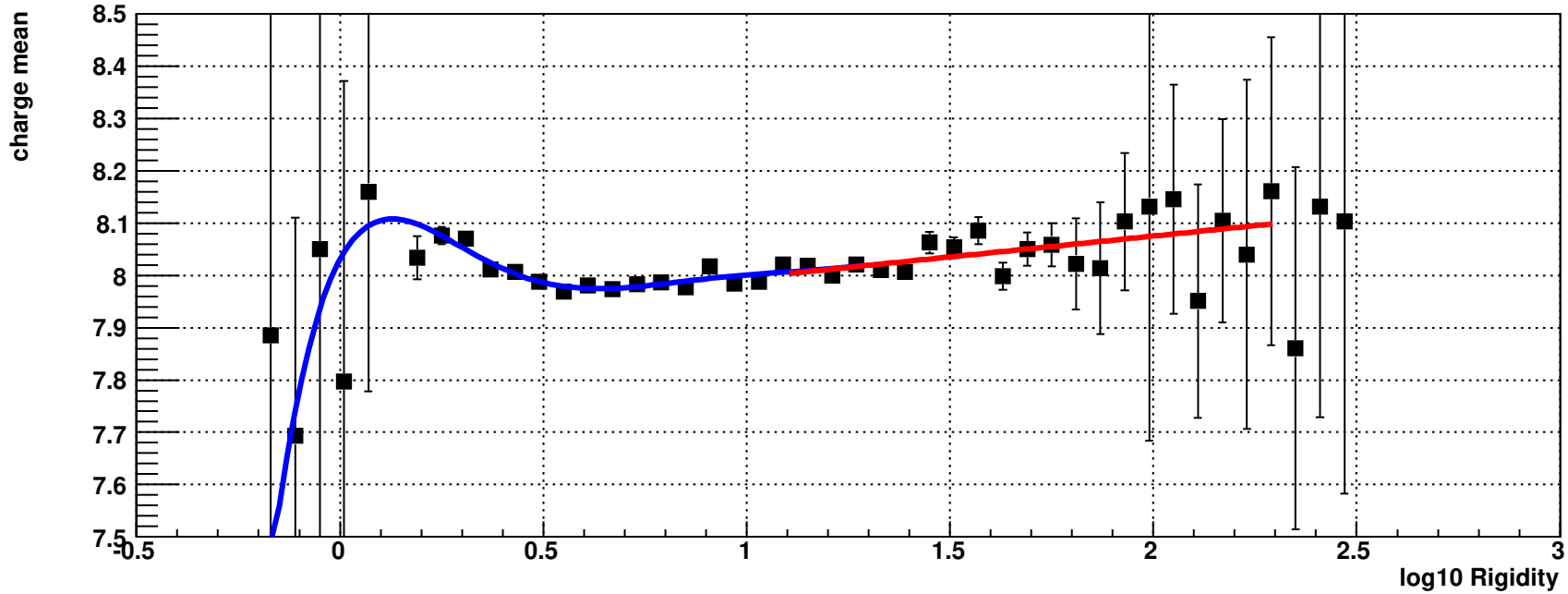
1_rig_charge_pre21_4 Carbon



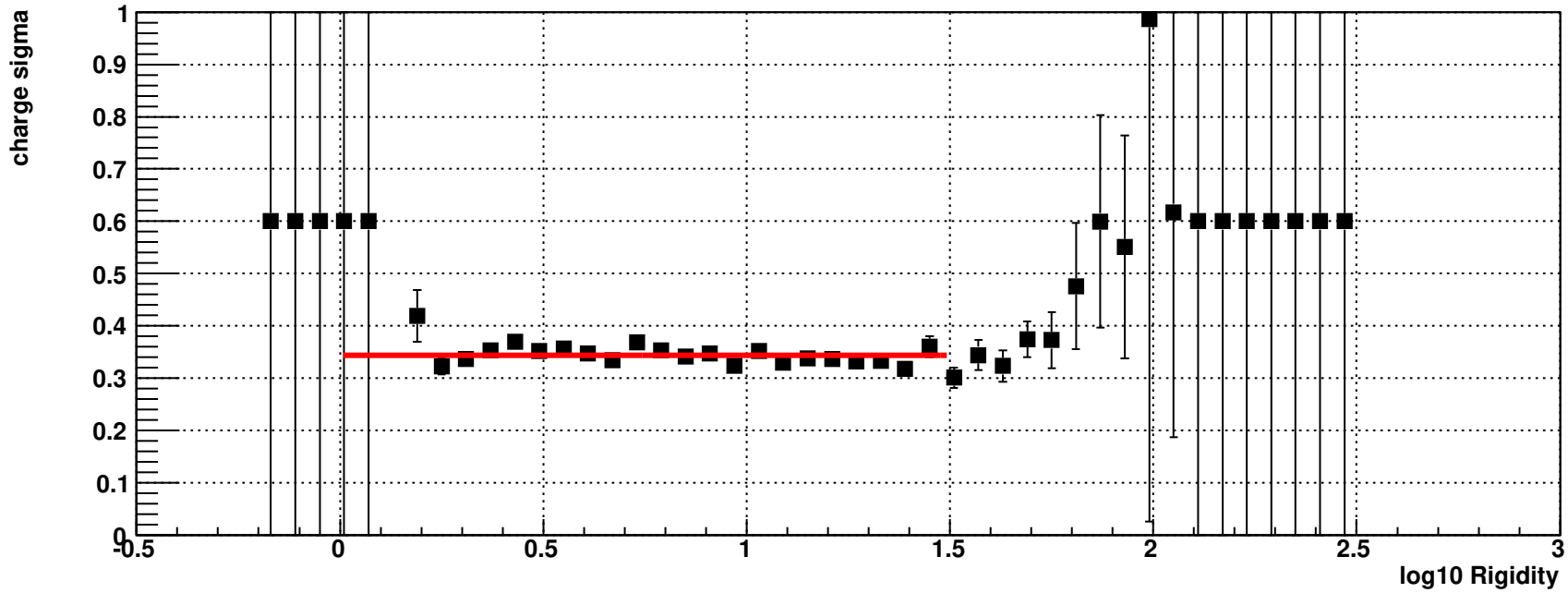

1_rig_charge_pre21_5
1_rig_charge_pre21_5
Entries 7543
Entries: 37167
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10



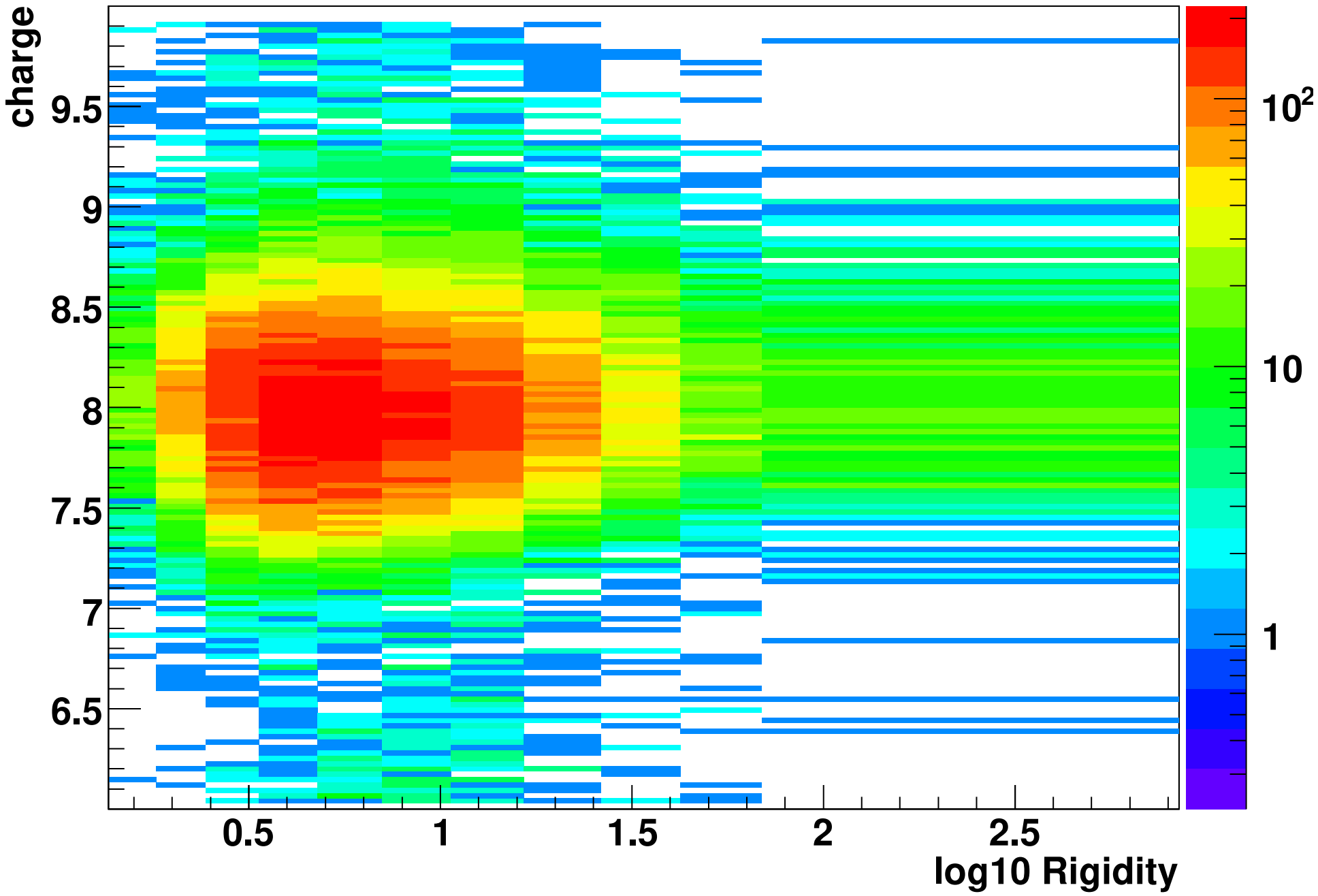
1_rig_charge_pre21_5_py_50

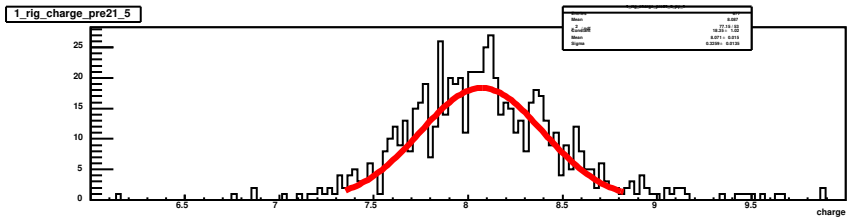


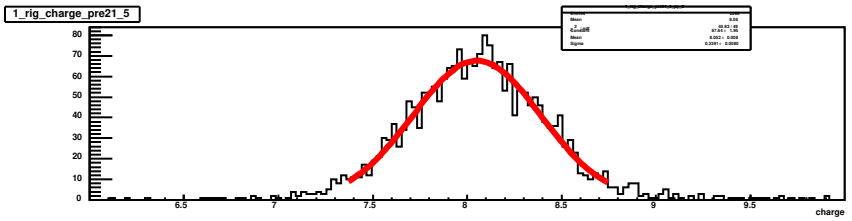
1_rig_charge_pre21_5_py_50

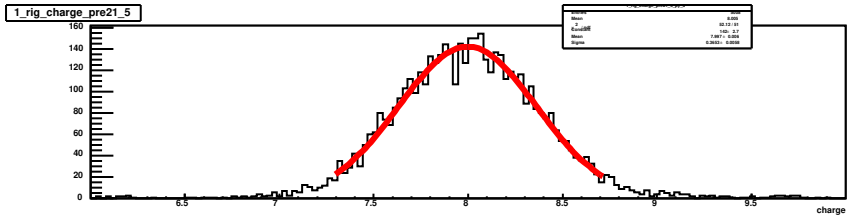


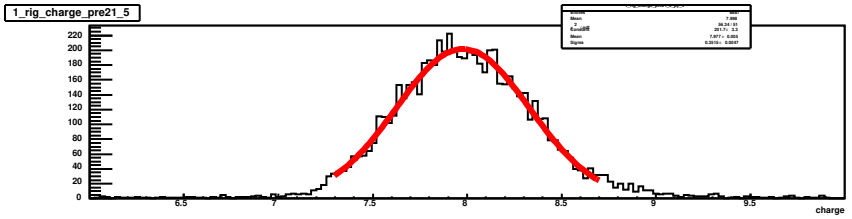
1_rig_charge_pre21_5

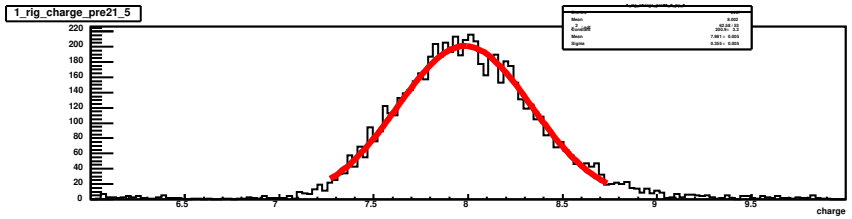


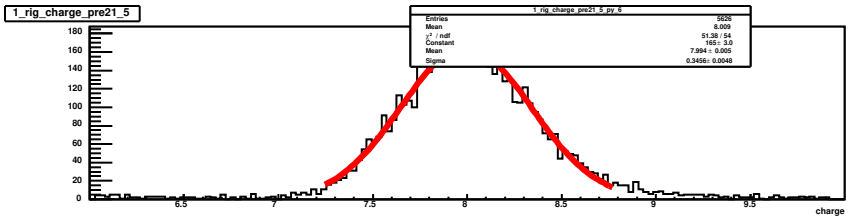

1_rig_charge_pre21_5
charge

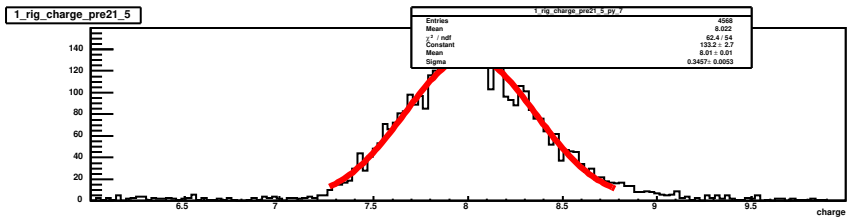

1_rig_charge_pre21_5
charge

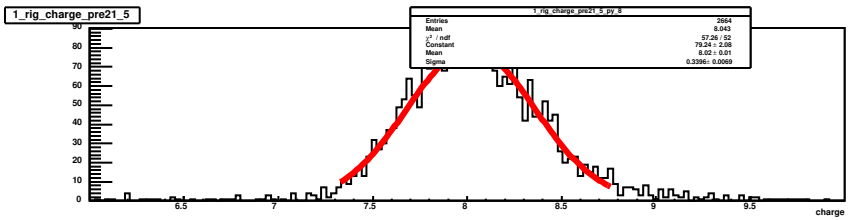

1_rig_charge_pre21_5
charge

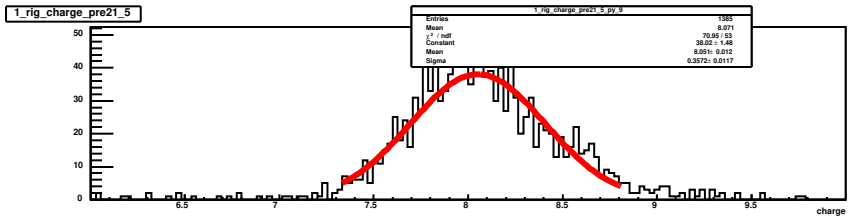

1_rig_charge_pre21_5
charge

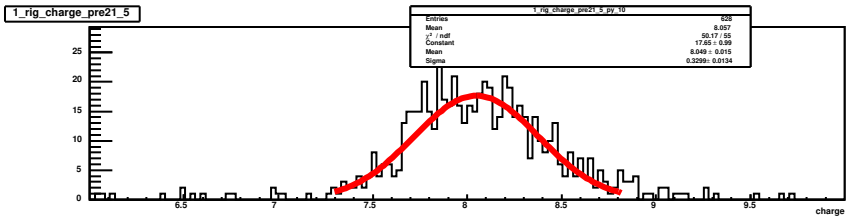

1_rig_charge_pre21_5
charge

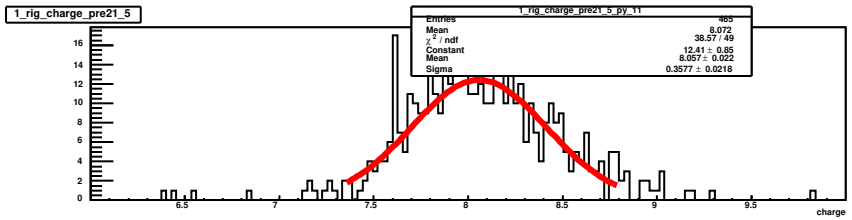

1_rig_charge_pre21_5
1_rig_charge_pre21_5_py_6
Entries 5626
Mean 8.009
χ² / ndf 51.38 / 54
Constant 165 ± 3.0
Mean 7.994 ± 0.005
Sigma 0.3456 ± 0.0048
charge


1_rig_charge_pre21_5
1_rig_charge_pre21_5_py_7
Entries 4568
Mean 8.022
χ² / ndf 62.4 / 64
Constant 133.2 ± 2.7
Mean 8.01 ± 0.01
Sigma 0.3457 ± 0.0053
charge

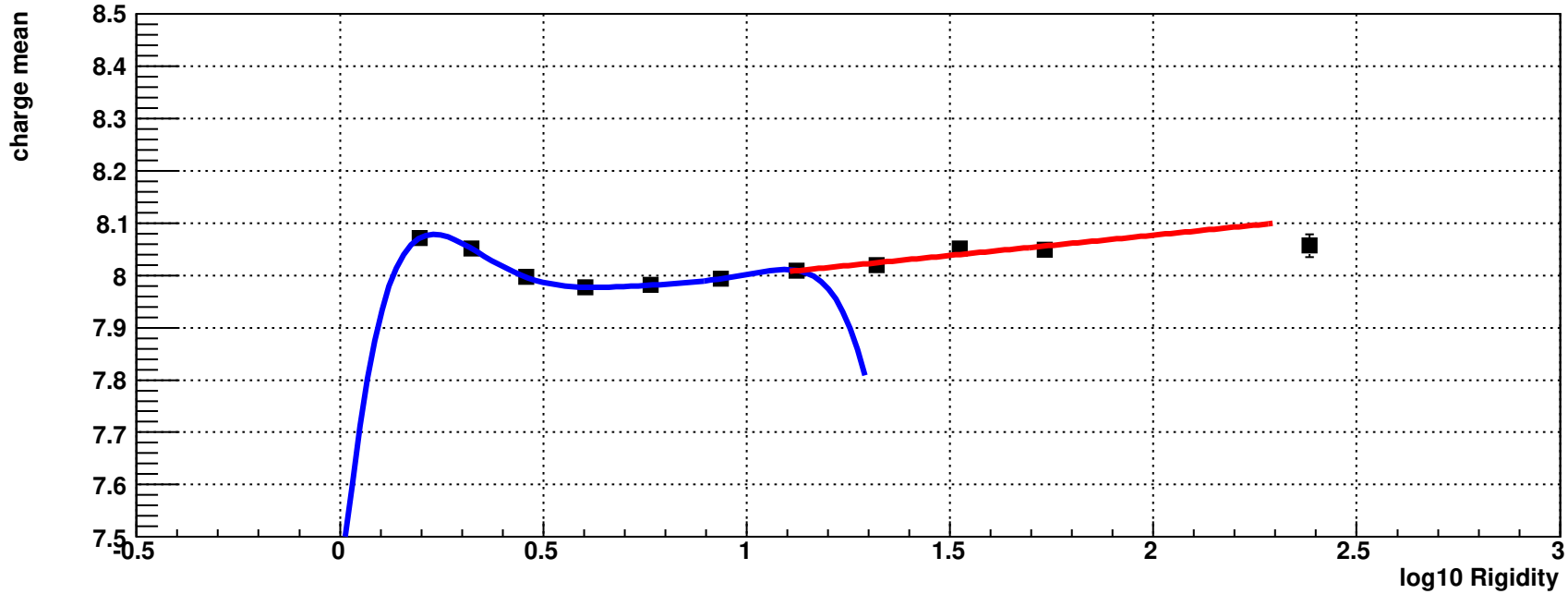

1_rig_charge_pre21_5
1_rig_charge_pre21_5_py_8
Entries 2664
Mean 8.043
χ² / ndf 57.26 / 52
Constant 79.24 ± 2.08
Mean 8.02 ± 0.01
Sigma 0.3396 ± 0.0069
charge


1_rig_charge_pre21_5
1_rig_charge_pre21_5_py_9
Entries 1385
Mean 8.071
χ² / ndf 76.95 / 53
Constant 35.02 ± 1.48
Mean 8.051 ± 0.012
Sigma 0.3572 ± 0.0117
charge

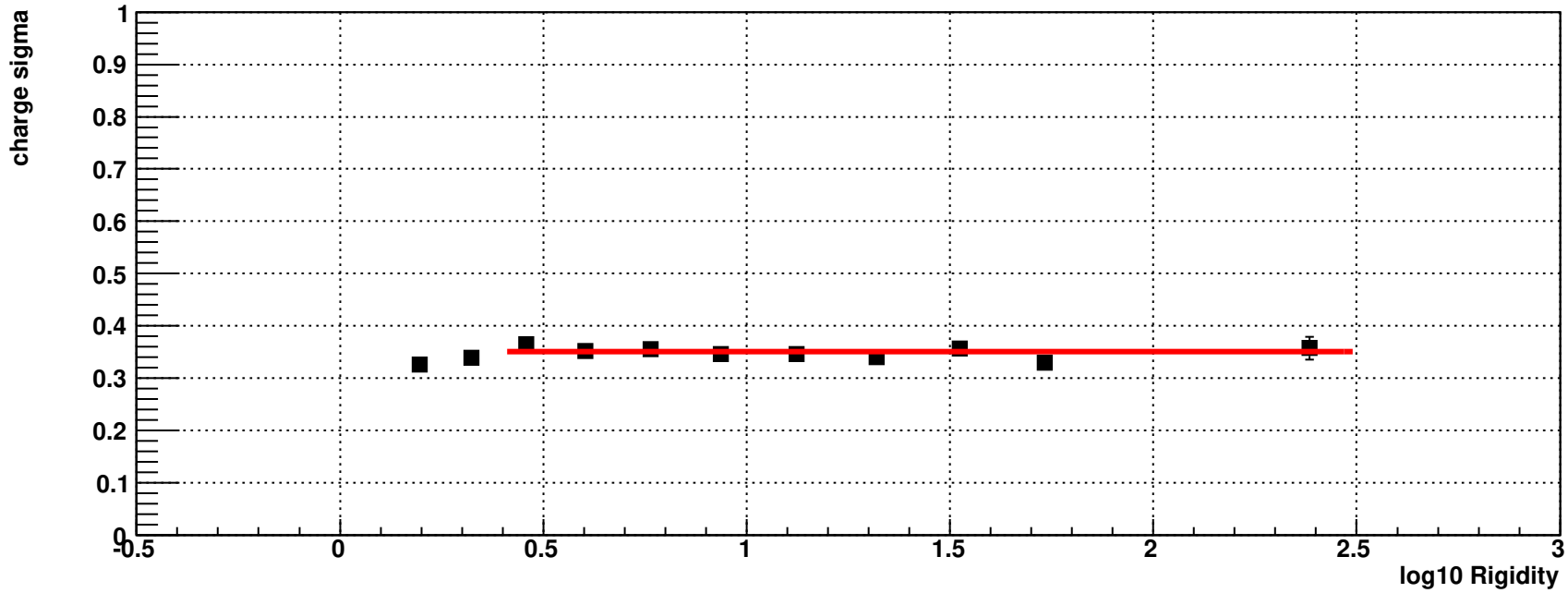

1_rig_charge_pre21_5
1_rig_charge_pre21_5_py_10
Entries 828
Mean 8.057
χ² / ndf 50.17 / 55
Constant 17.65 ± 0.99
Mean 8.049 ± 0.015
Sigma 0.3299 ± 0.0134
charge

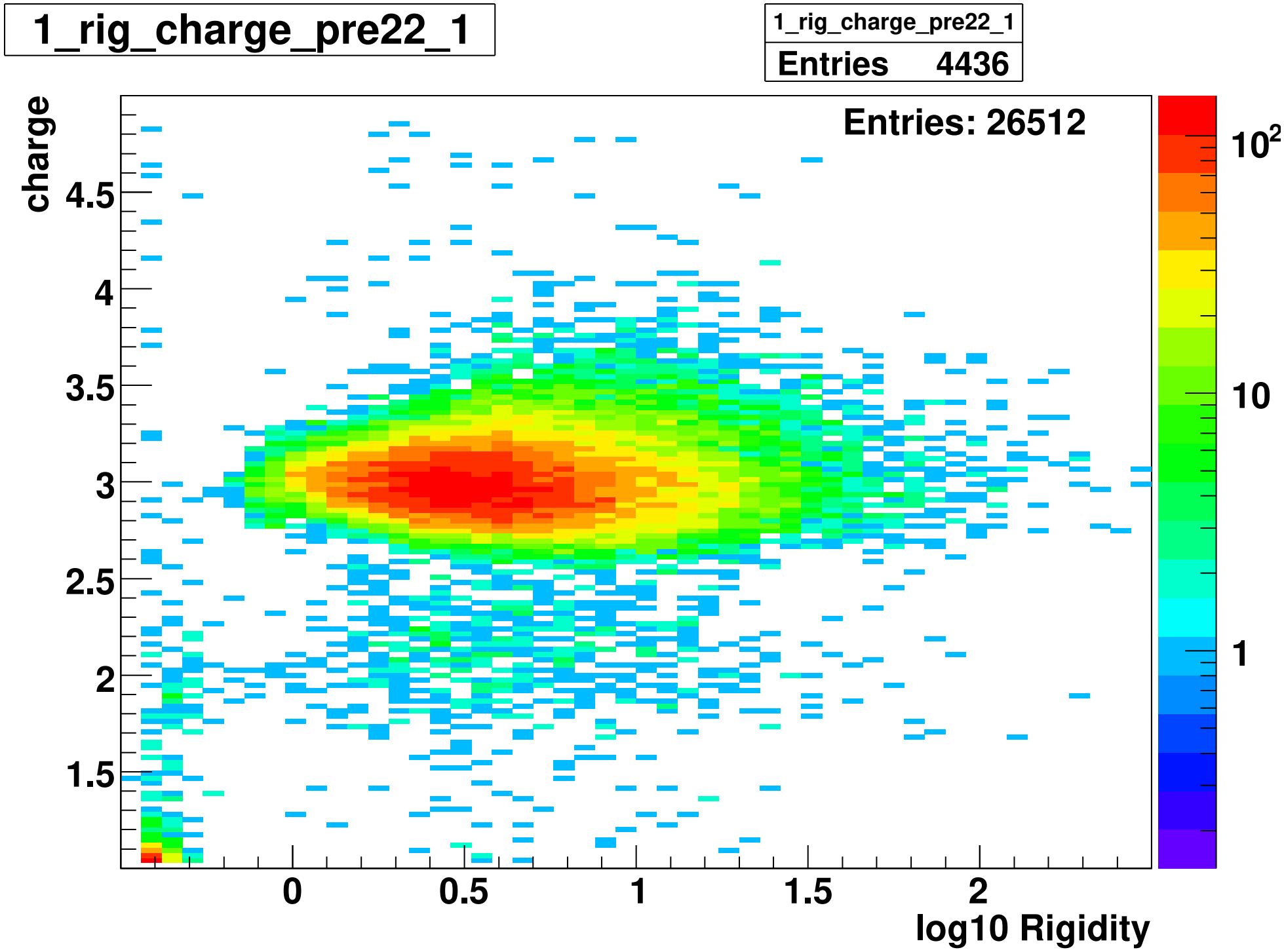

1_rig_charge_pre21_5
1_rig_charge_pre21_5_py_11
Entries 465
Mean 8.072
χ² / ndf 38.57 / 49
Constant 12.41 ± 0.85
Mean 8.057 ± 0.022
Sigma 0.3577 ± 0.0218
charge

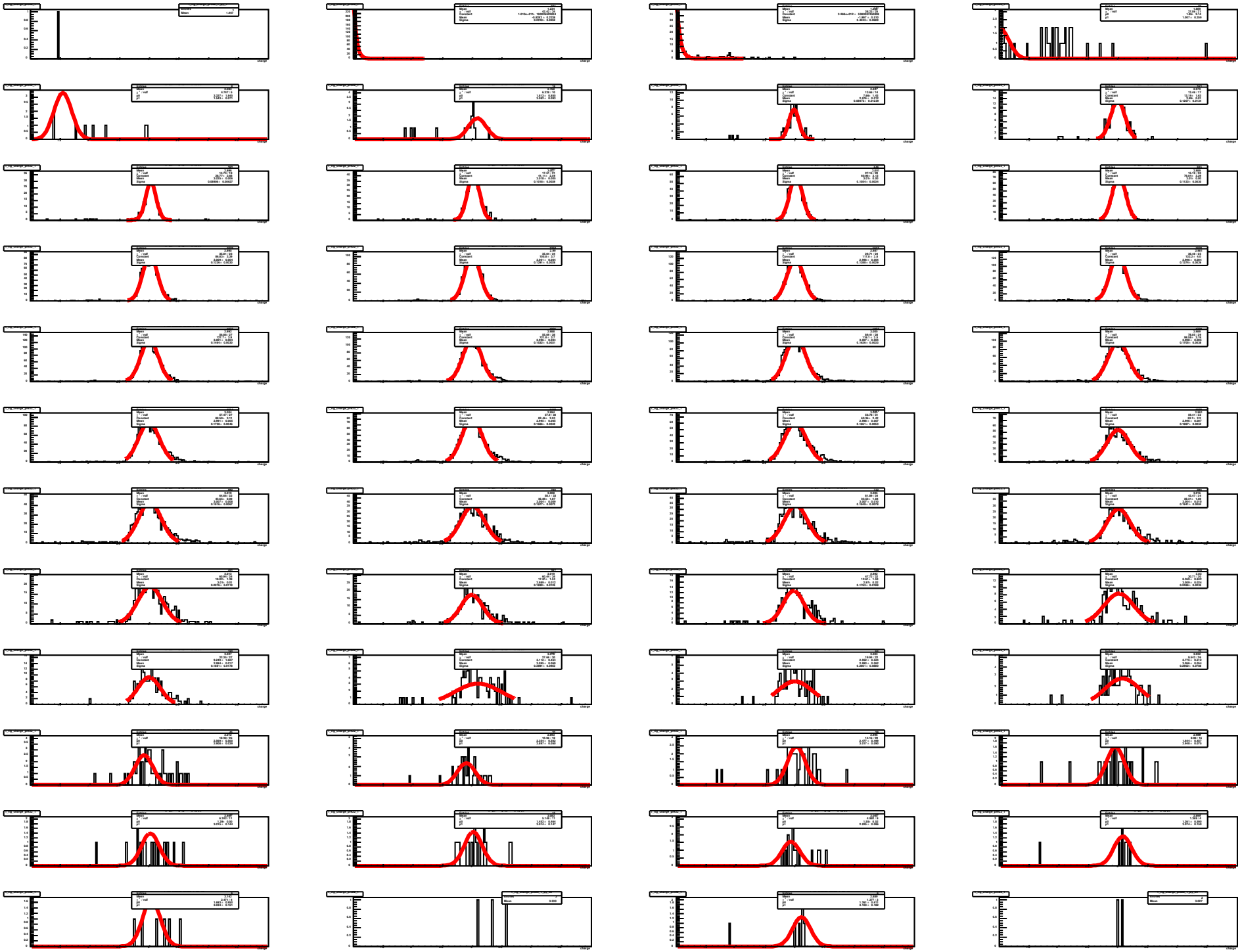
1_rig_charge_pre21_5_py_11



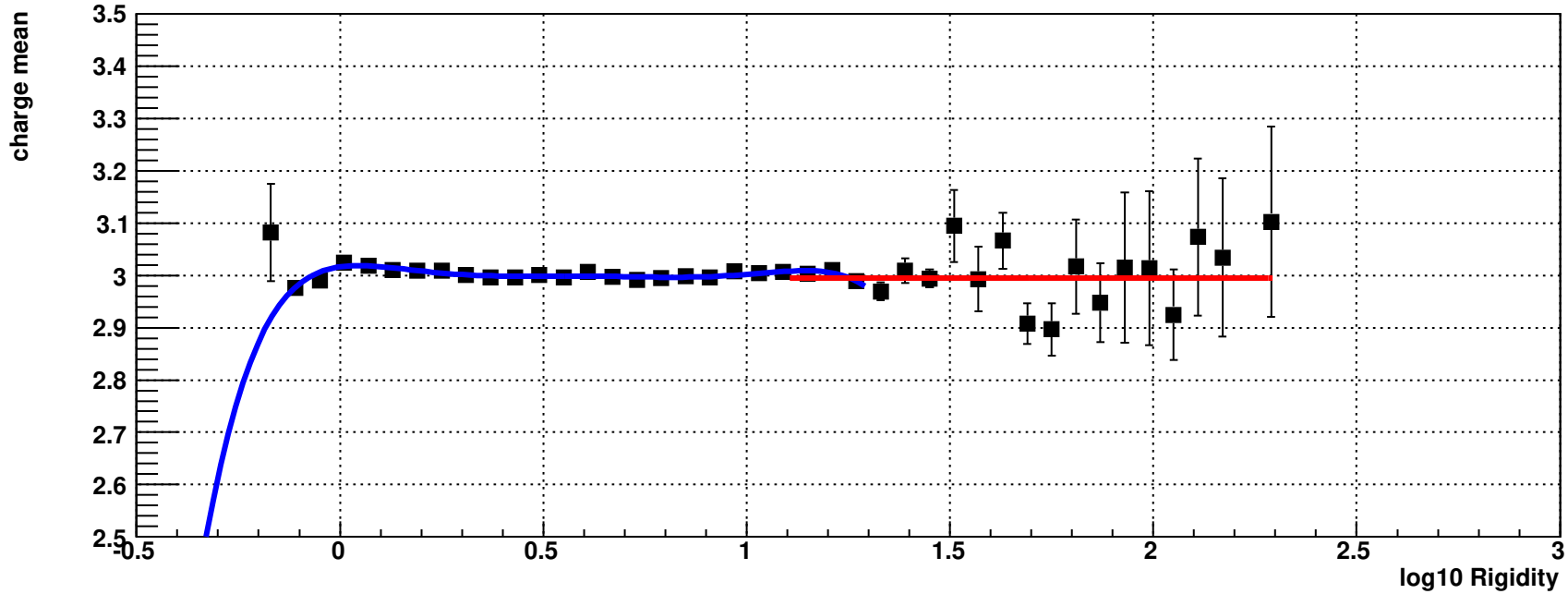
1_rig_charge_pre21_5_py_11



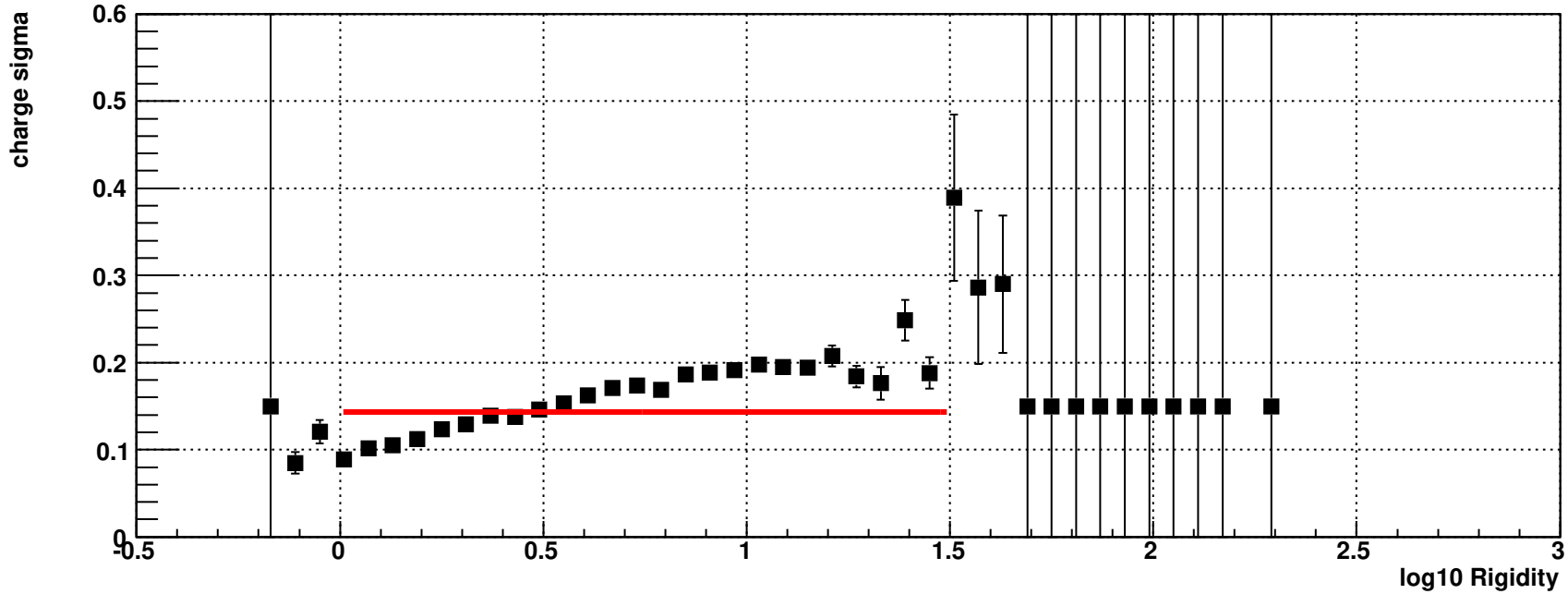

1_rig_charge_pre22_1
1_rig_charge_pre22_1
Entries 4436
Entries: 26512
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

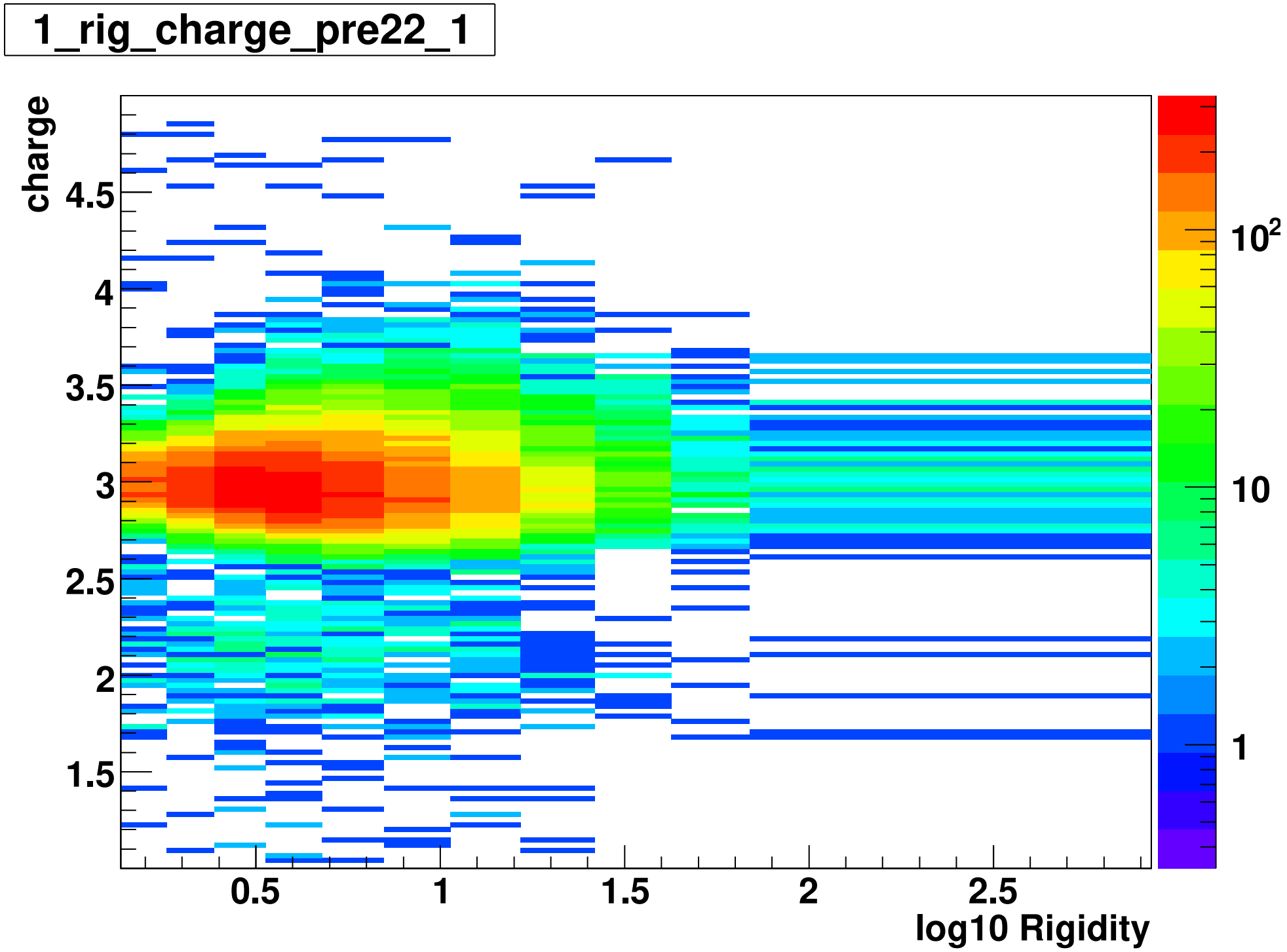


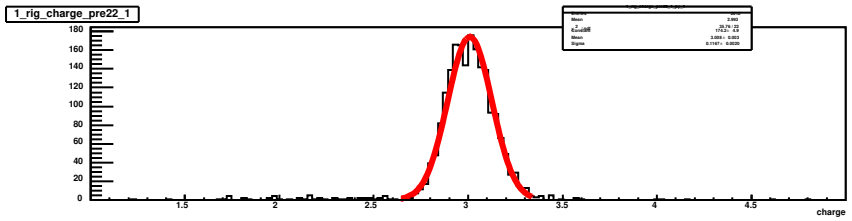
1_rig_charge_pre22_1 Lithium

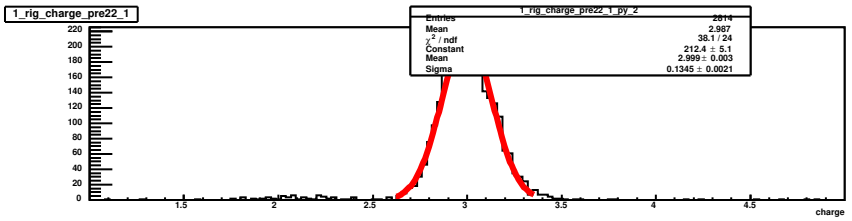


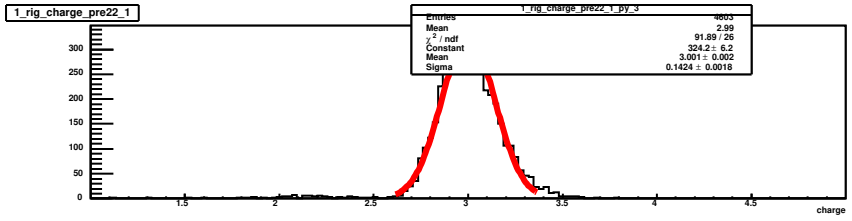
1_rig_charge_pre22_1 Lithium

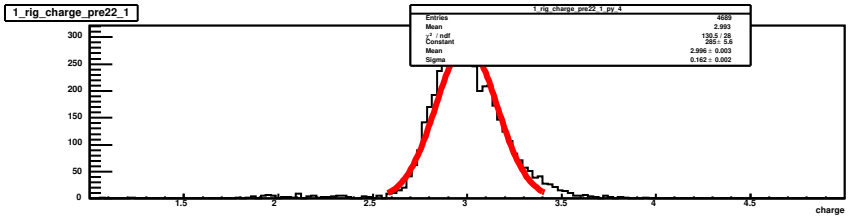


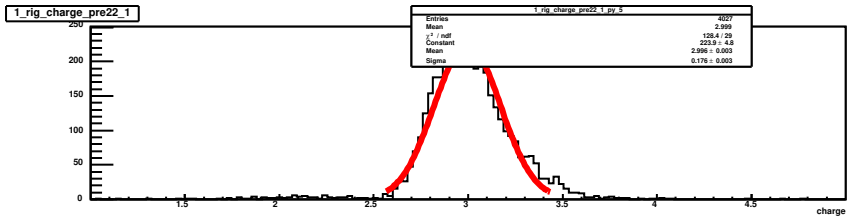

1_rig_charge_pre22_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

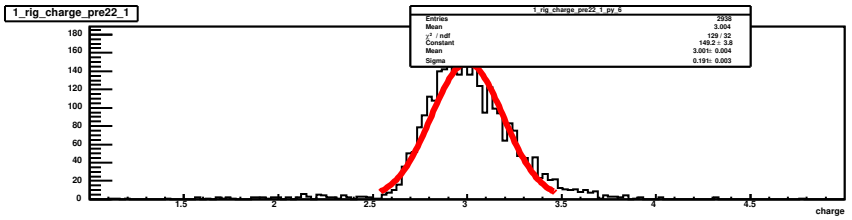

1_rig_charge_pre22_1
charge

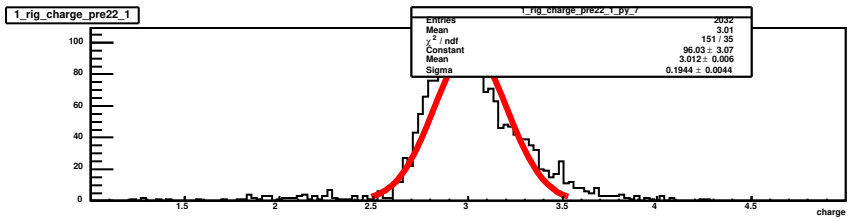

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_2
Entries 2814
Mean 2.987
χ² / ndf 38.1 / 24
Constant 212.4 ± 5.1
Mean 2.999 ± 0.003
Sigma 0.1345 ± 0.0021
charge

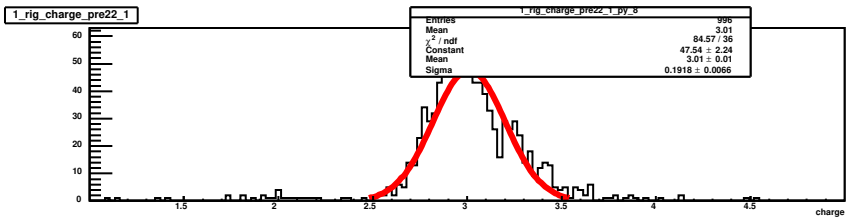

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_3
Entries 4803
Mean 2.99
χ² / ndf 91.89 / 26
Constant 324.2 ± 6.2
Mean 3.001 ± 0.002
Sigma 0.1424 ± 0.0018
charge

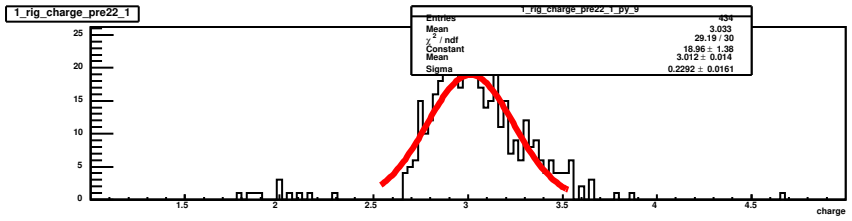

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_4
Entries 4689
Mean 2.993
χ² / ndf 130.5 / 28
Constant 285 ± 5.5
Mean 2.996 ± 0.003
Sigma 0.162 ± 0.002
charge

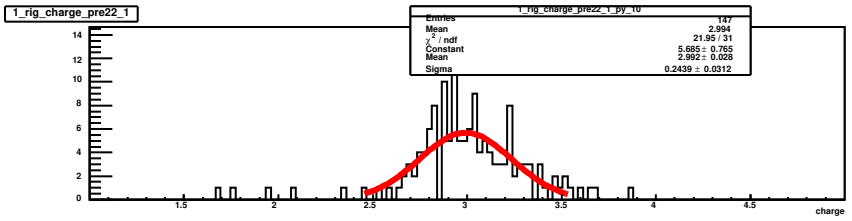

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_5
Entries 4027
Mean 2.999
χ² / ndf 128.4 / 29
Constant 223.9 ± 4.8
Mean 2.996 ± 0.003
Sigma 0.176 ± 0.003
charge

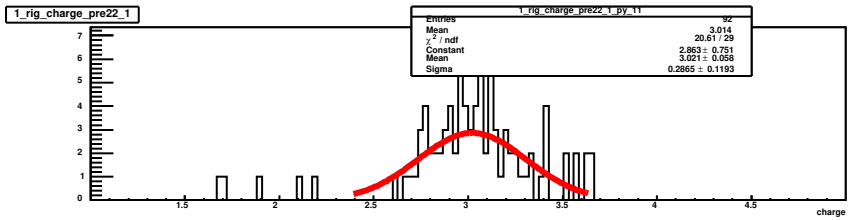

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_6
Entries 2938
Mean 3.004
χ² / ndf 129 / 32
Constant 149.2 ± 3.8
Mean 3.001 ± 0.004
Sigma 0.191 ± 0.003
charge


1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_7
Entries 2032
Mean 3.01
χ² / ndf 151 / 35
Constant 96.03 ± 3.07
Mean 3.012 ± 0.006
Sigma 0.1944 ± 0.0044
charge

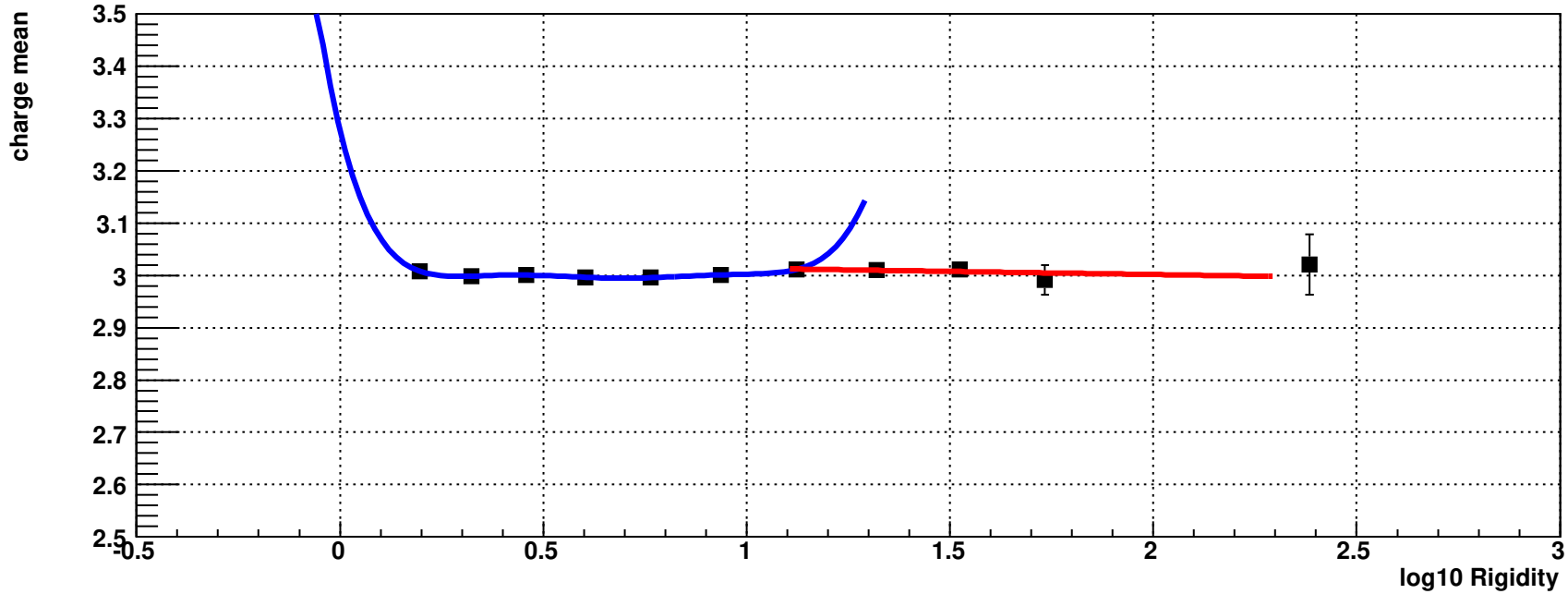

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_8
Entries 996
Mean 3.01
χ² / ndf 84.57 / 36
Constant 47.54 ± 2.24
Mean 3.01 ± 0.01
Sigma 0.1918 ± 0.0066
charge


1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_9
Entries 434
Mean 3.033
χ² / ndf 29.19 / 30
Constant 18.96 ± 1.38
Mean 3.012 ± 0.014
Sigma 0.2292 ± 0.0161
charge

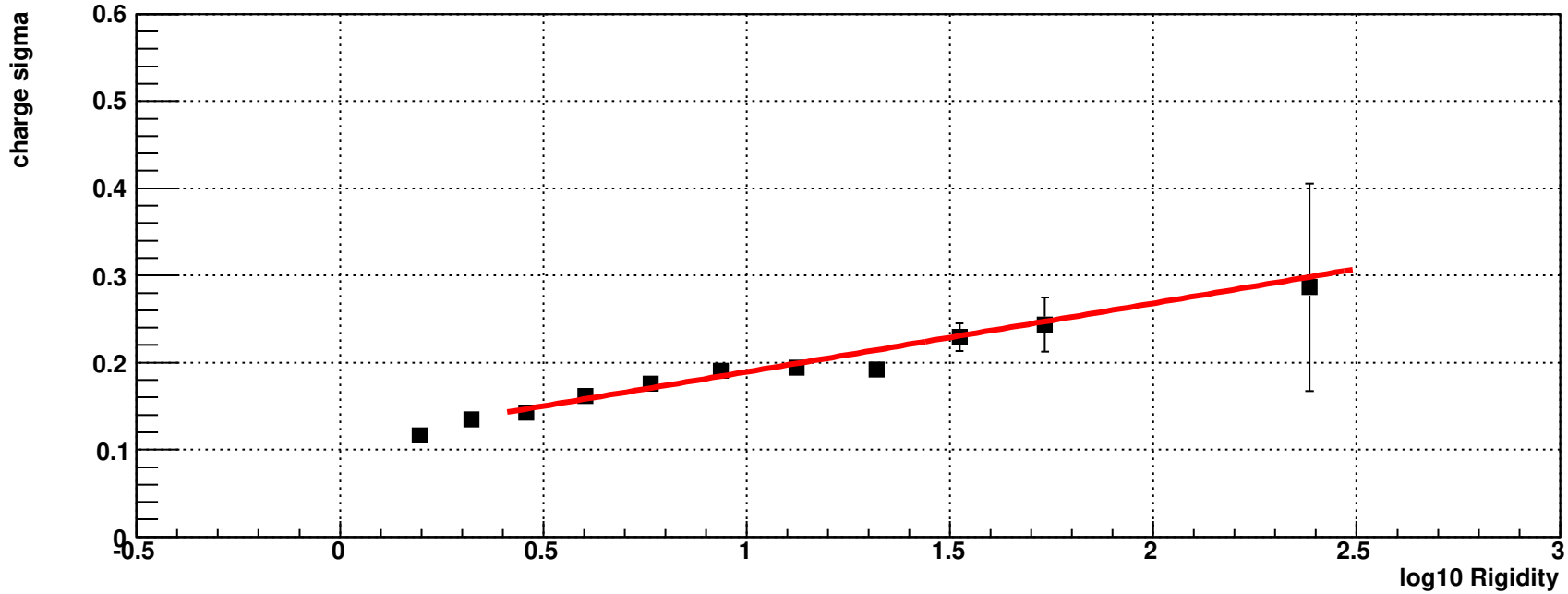

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_10
Entries 147
Mean 2.994
χ² / ndf 21.95 / 31
Constant 5.685 ± 0.765
Mean 2.992 ± 0.026
Sigma 0.2439 ± 0.0312
charge

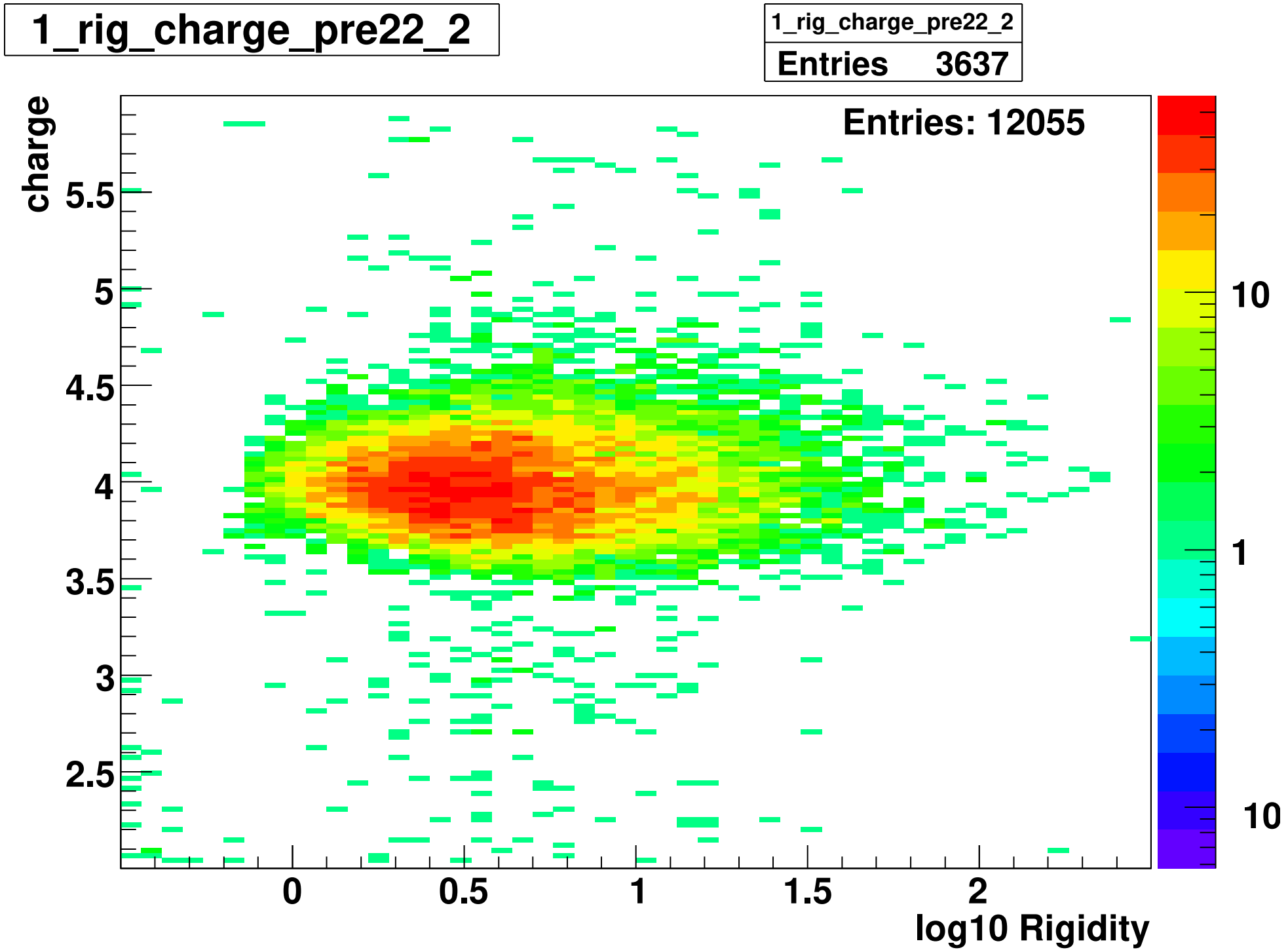

1_rig_charge_pre22_1
1_rig_charge_pre22_1_py_11
Entries 92
Mean 3.014
χ² / ndf 20.61 / 29
Constant 2.863 ± 0.751
Mean 3.021 ± 0.058
Sigma 0.2865 ± 0.1193
charge

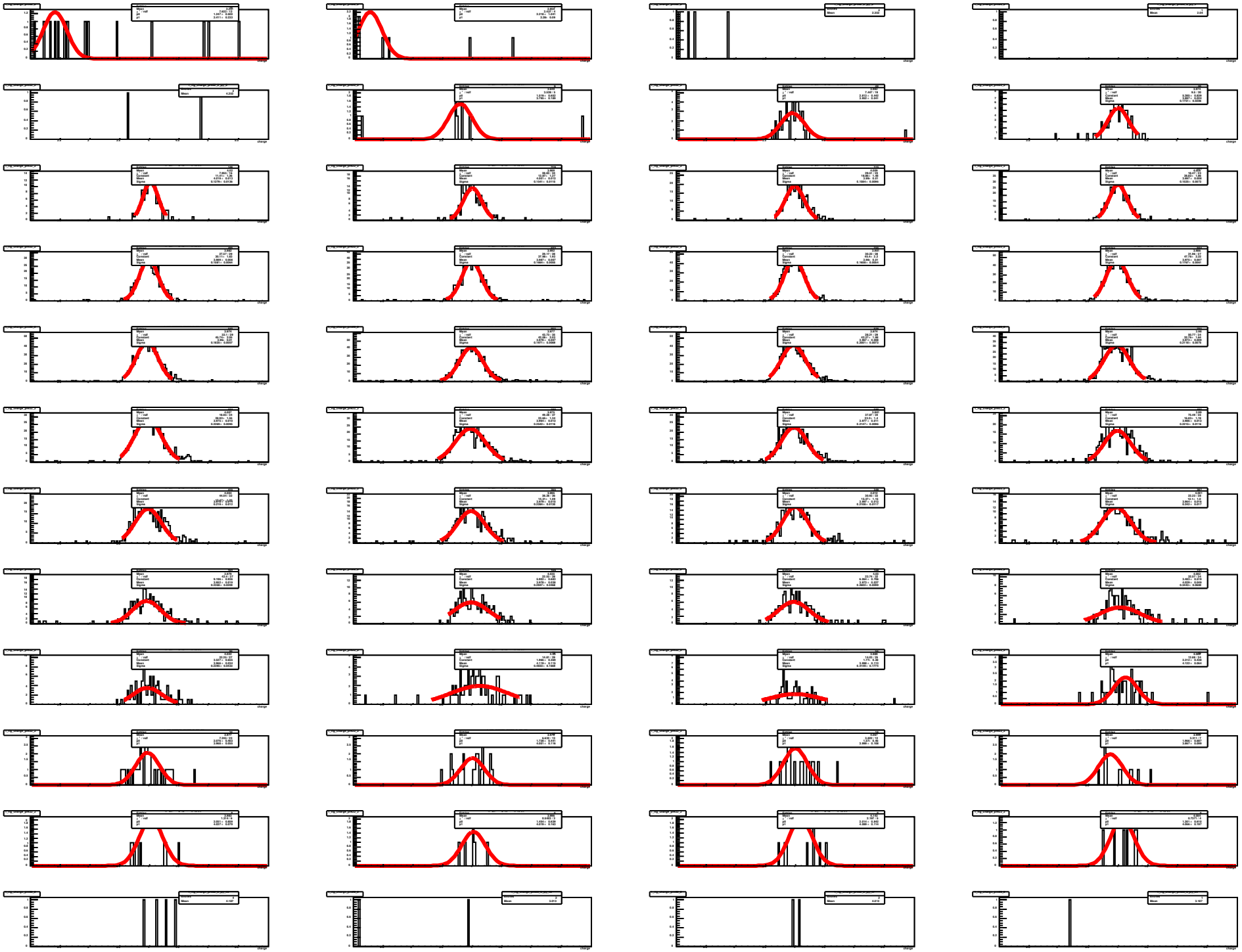
1_rig_charge_pre22_1 Lithium



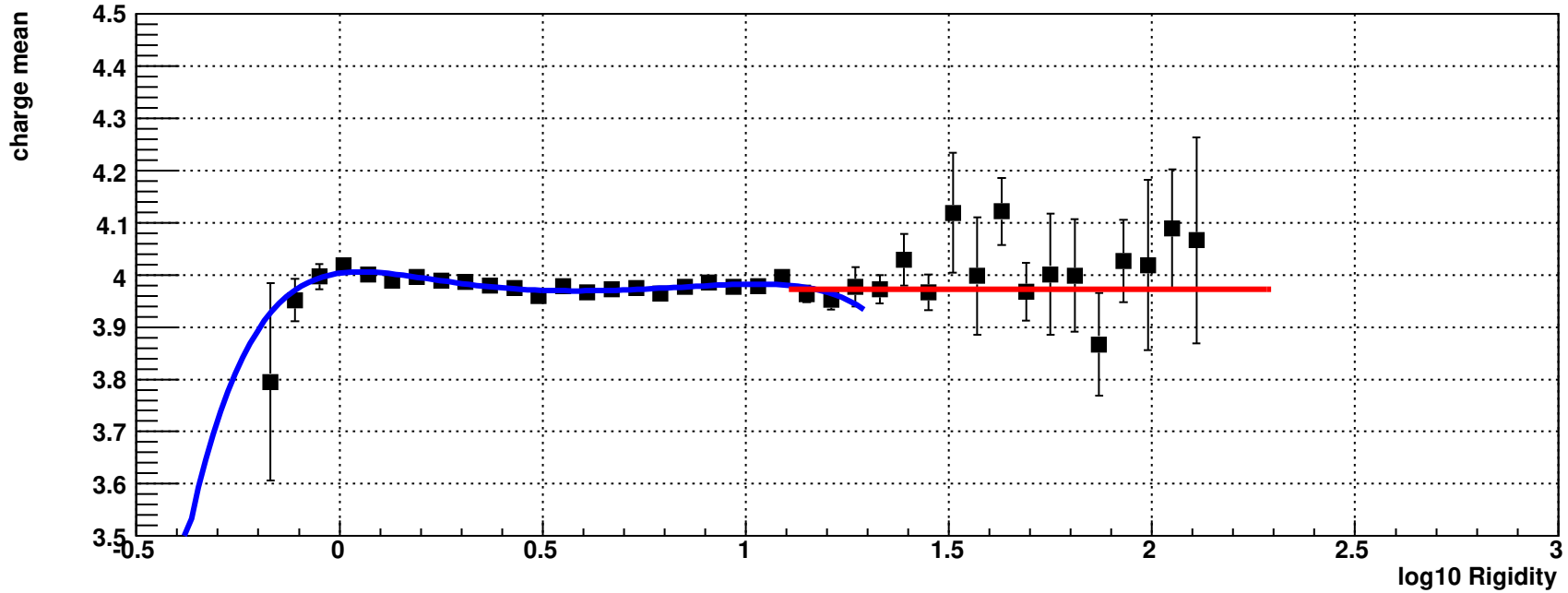
1_rig_charge_pre22_1 Lithium



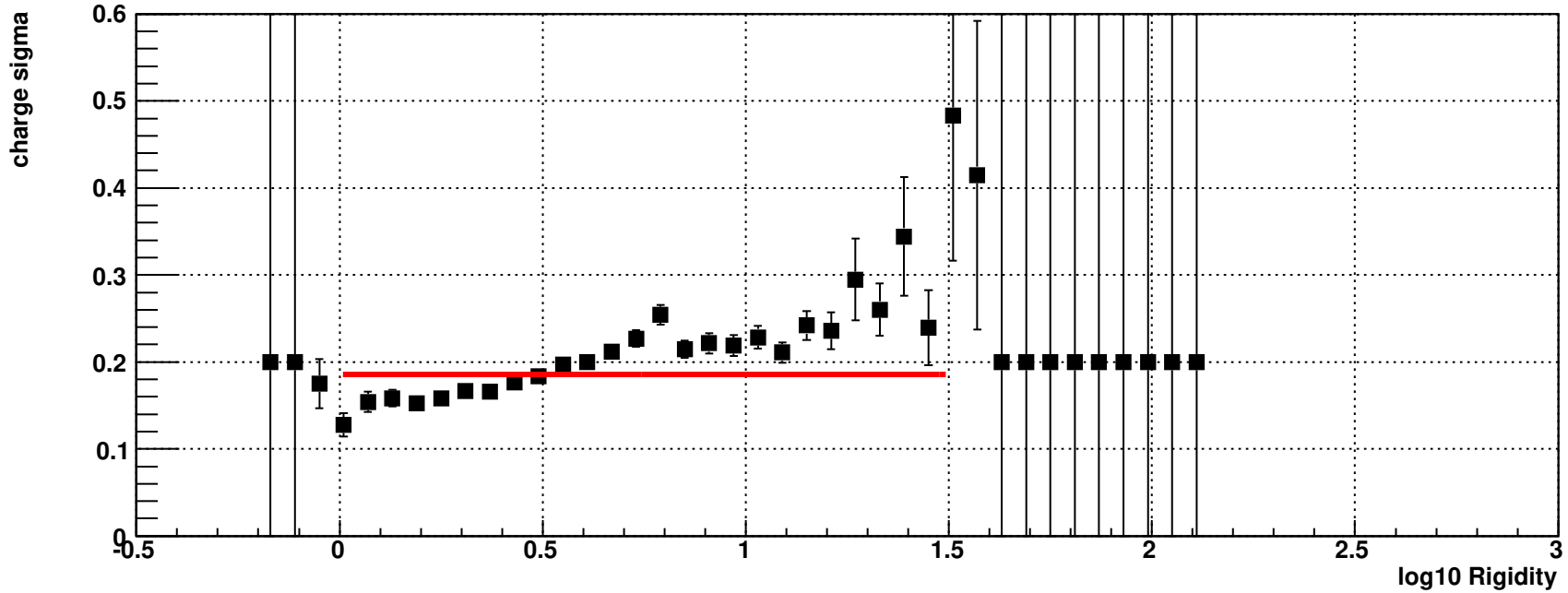

1_rig_charge_pre22_2
1_rig_charge_pre22_2
Entries 3637
Entries: 12055
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10



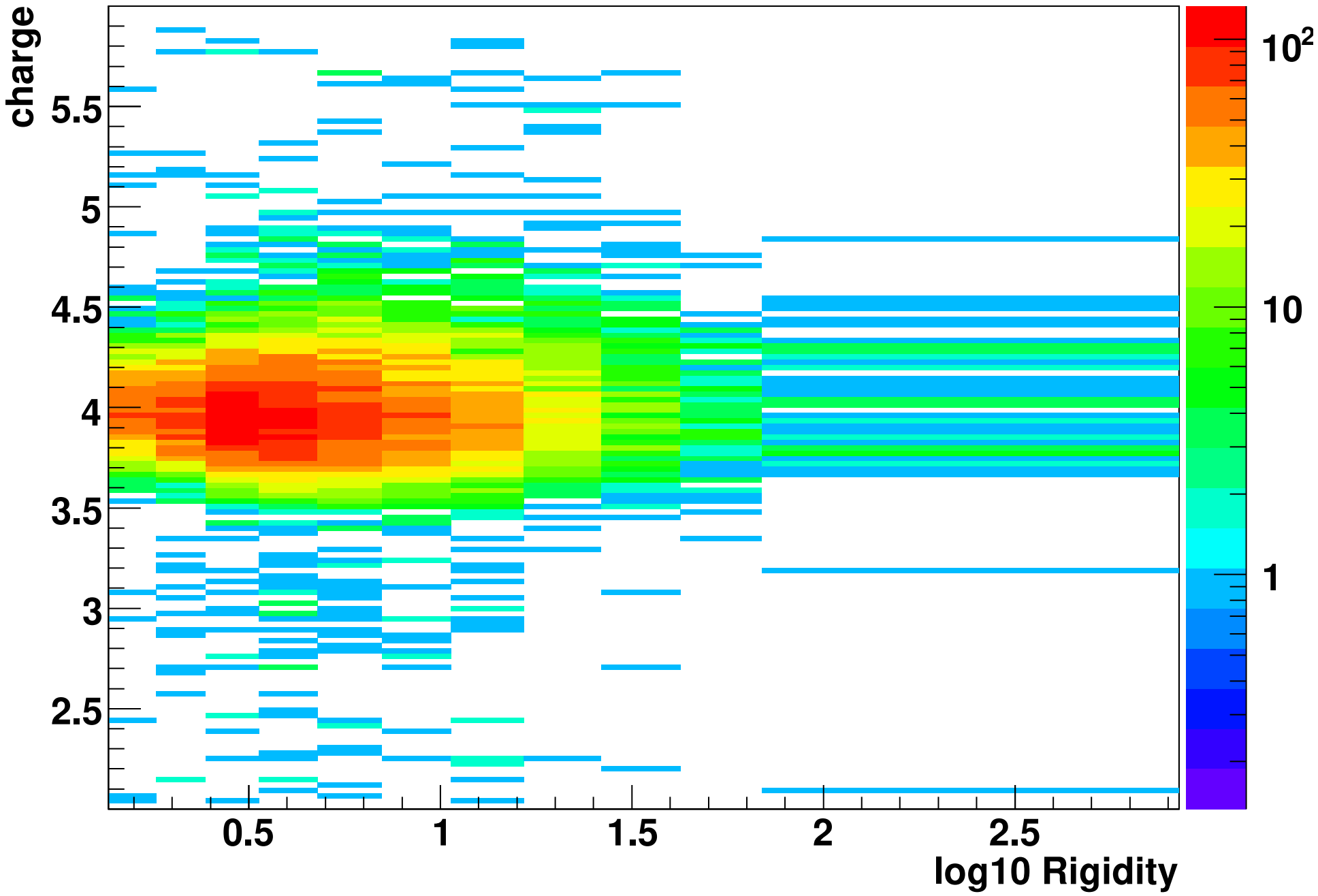
1_rig_charge_pre22_2 Beryllium

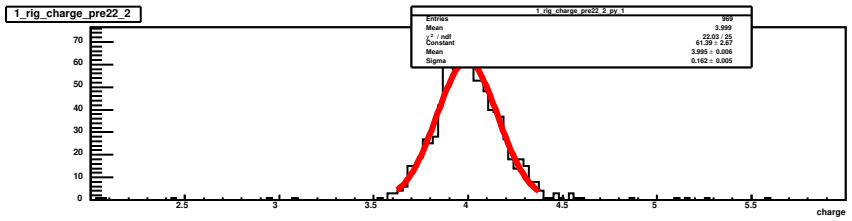


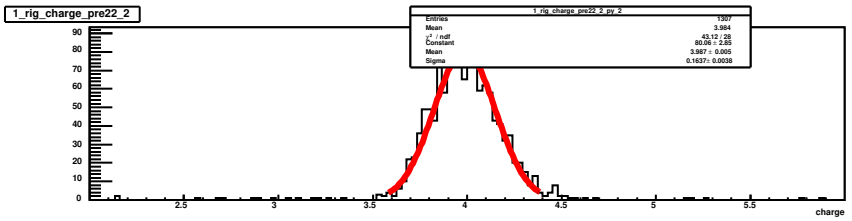
1_rig_charge_pre22_2 Beryllium

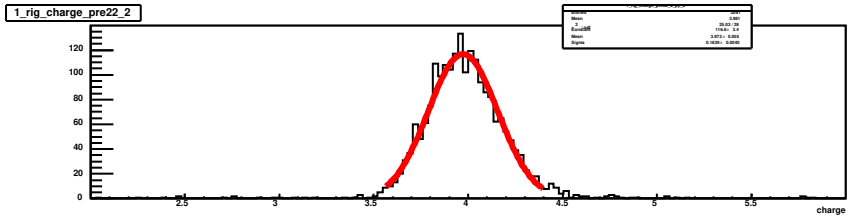


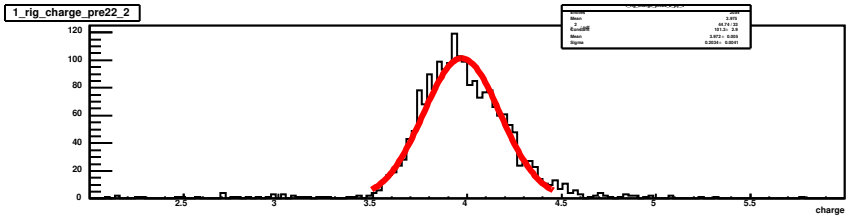
1_rig_charge_pre22_2

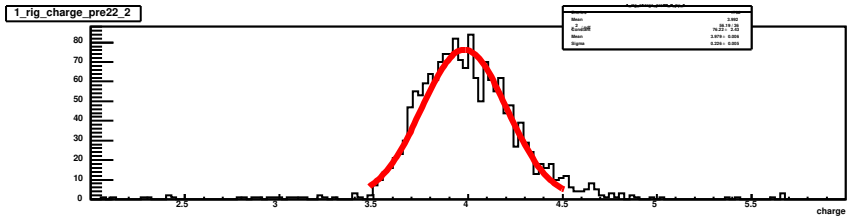


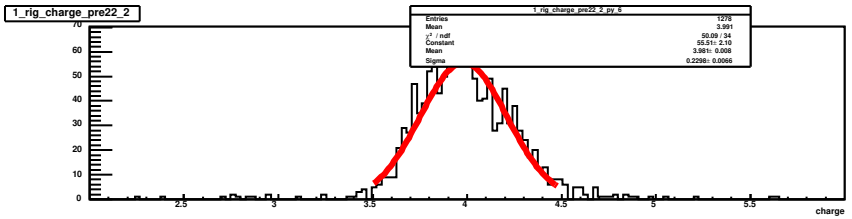

1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_1
Entries 869
Mean 3.999
χ² / ndf 22.03 / 25
Constant 61.39 ± 2.57
Mean 3.995 ± 0.006
Sigma 0.162 ± 0.005
charge

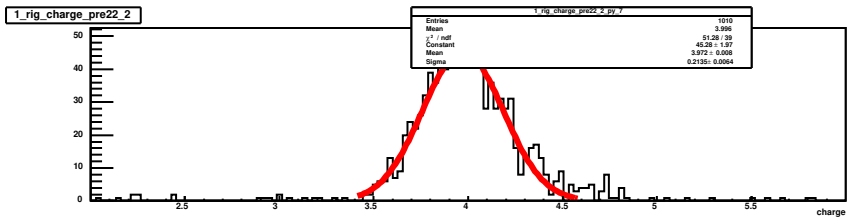

1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_2
Entries 1307
Mean 3.984
χ² / ndf 43.12 / 28
Constant 80.08 ± 2.85
Mean 3.987 ± 0.005
Sigma 0.1637 ± 0.0038
charge

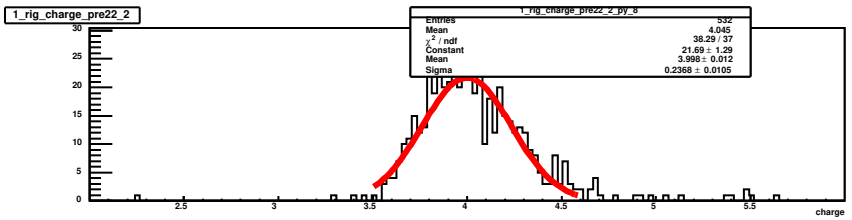

1_rig_charge_pre22_2
charge

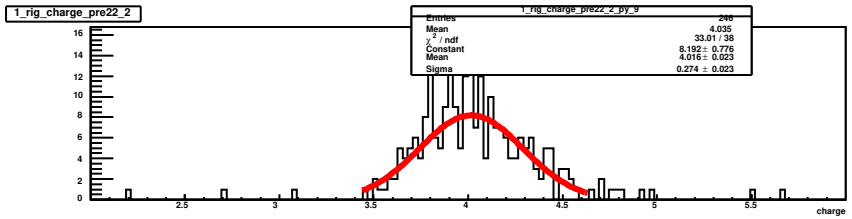

1_rig_charge_pre22_2
charge

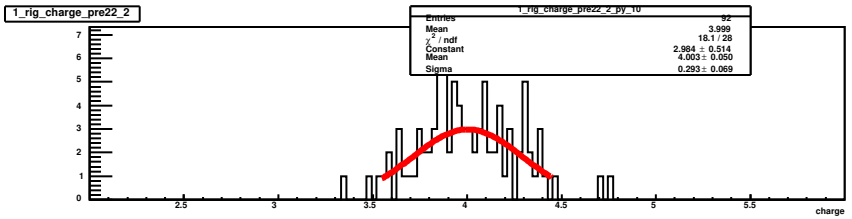

1_rig_charge_pre22_2
charge

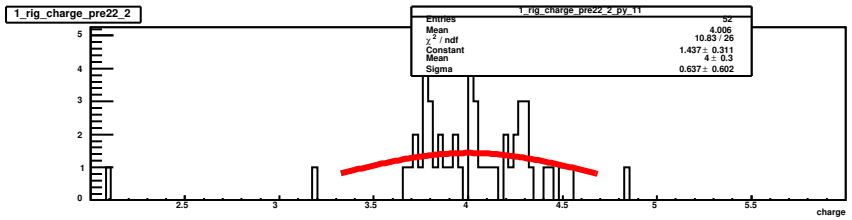

1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_6
Entries 1278
Mean 3.991
χ² / ndf 50.09 / 34
Constant 55.51 ± 2.10
Mean 3.981 ± 0.008
Sigma 0.2298 ± 0.0066
charge


1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_7
Entries 1010
Mean 3.996
χ² / ndf 51.28 / 39
Constant 45.28 ± 1.97
Mean 3.972 ± 0.008
Sigma 0.2135 ± 0.0064
charge

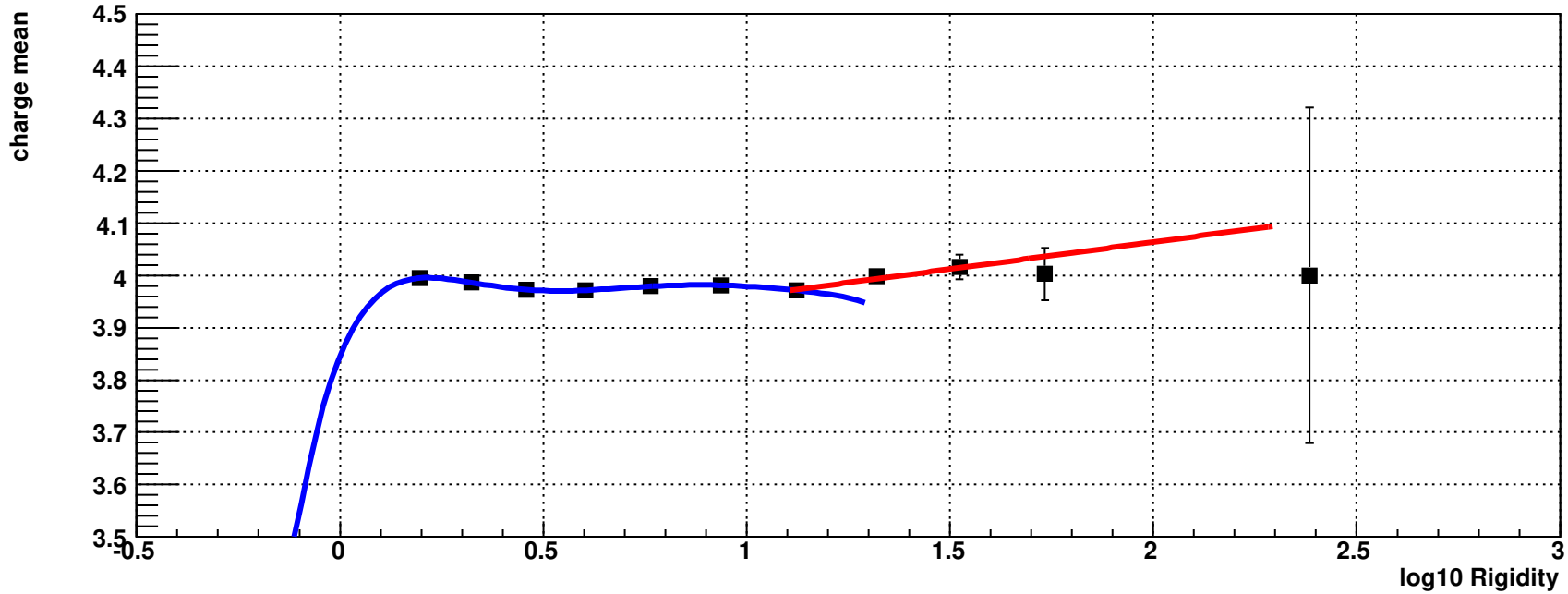

1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_8
Entries 532
Mean 4.045
χ² / ndf 38.29 / 37
Constant 21.69 ± 1.29
Mean 3.998 ± 0.012
Sigma 0.2368 ± 0.0105
charge


1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_9
Entries 246
Mean 4.035
χ² / ndf 33.01 / 38
Constant 8.192 ± 0.776
Mean 4.016 ± 0.023
Sigma 0.274 ± 0.023
charge

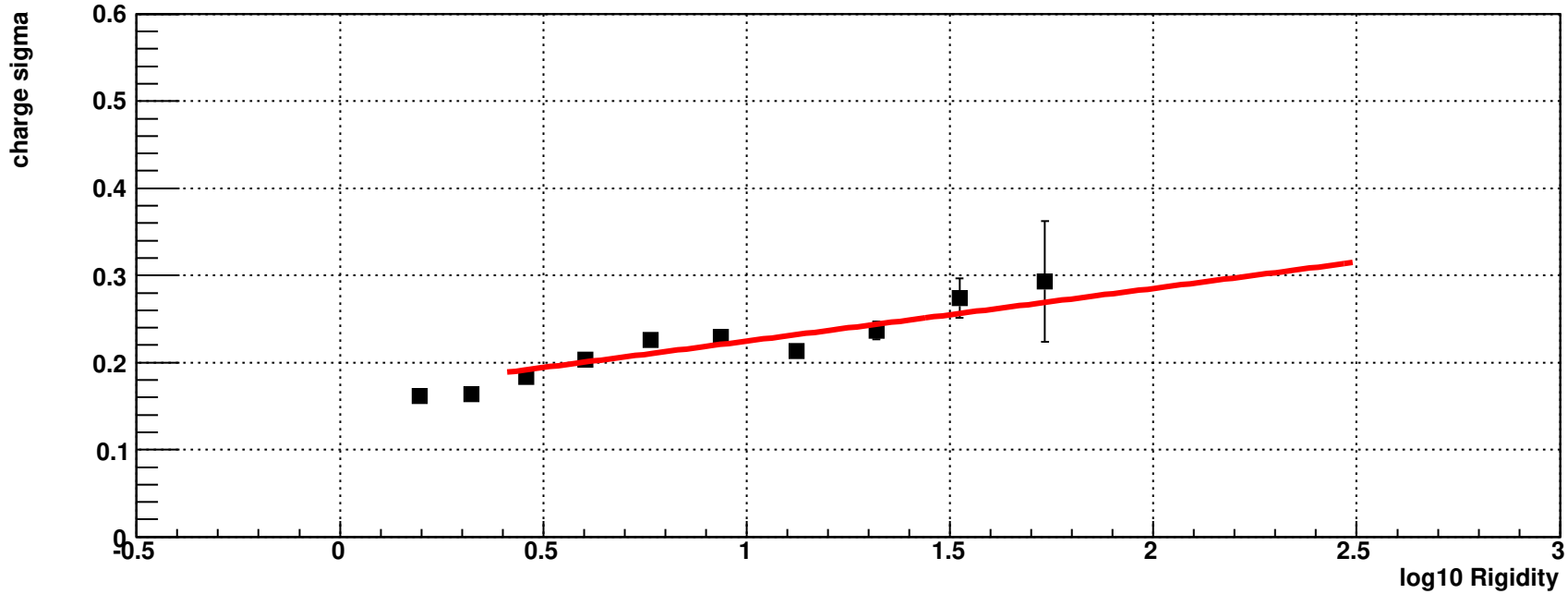

1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_10
Entries 92
Mean 3.999
χ² / ndf 18.1 / 28
Constant 2.984 ± 0.514
Mean 4.003 ± 0.050
Sigma 0.293 ± 0.069
charge

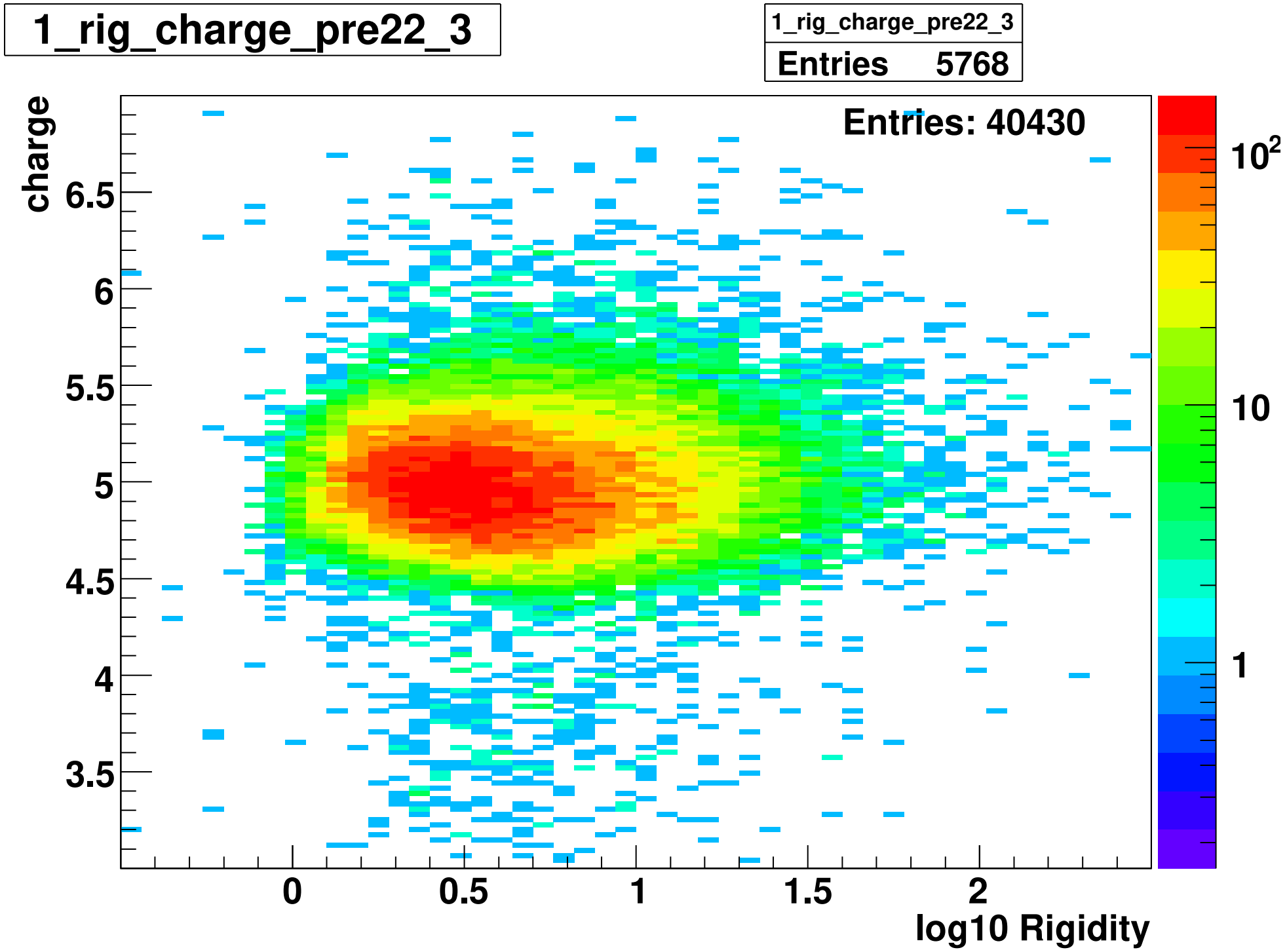

1_rig_charge_pre22_2
1_rig_charge_pre22_2_py_11
Entries 52
Mean 4.006
χ² / ndf 10.83 / 26
Constant 1.437 ± 0.311
Mean 4 ± 0.3
Sigma 0.637 ± 0.602
charge

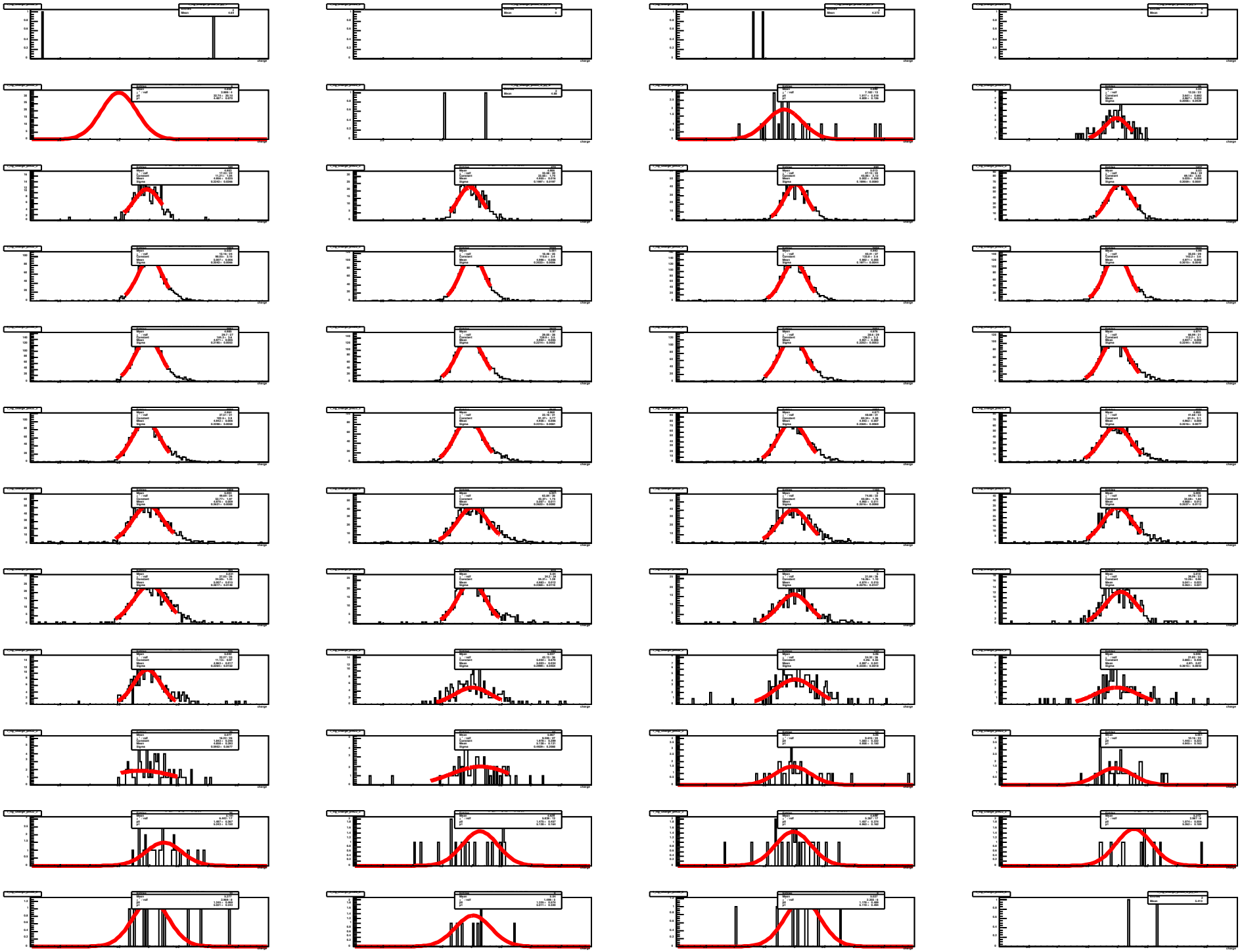
1_rig_charge_pre22_2 Beryllium



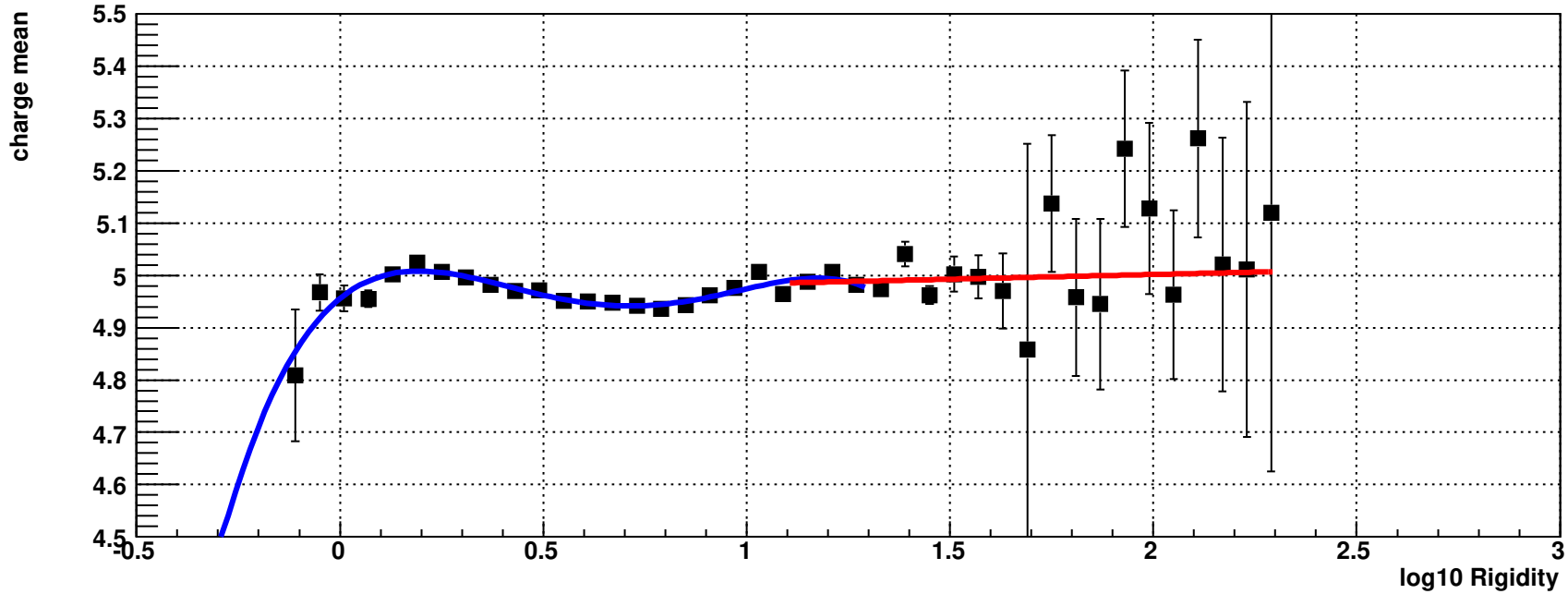
1_rig_charge_pre22_2 Beryllium



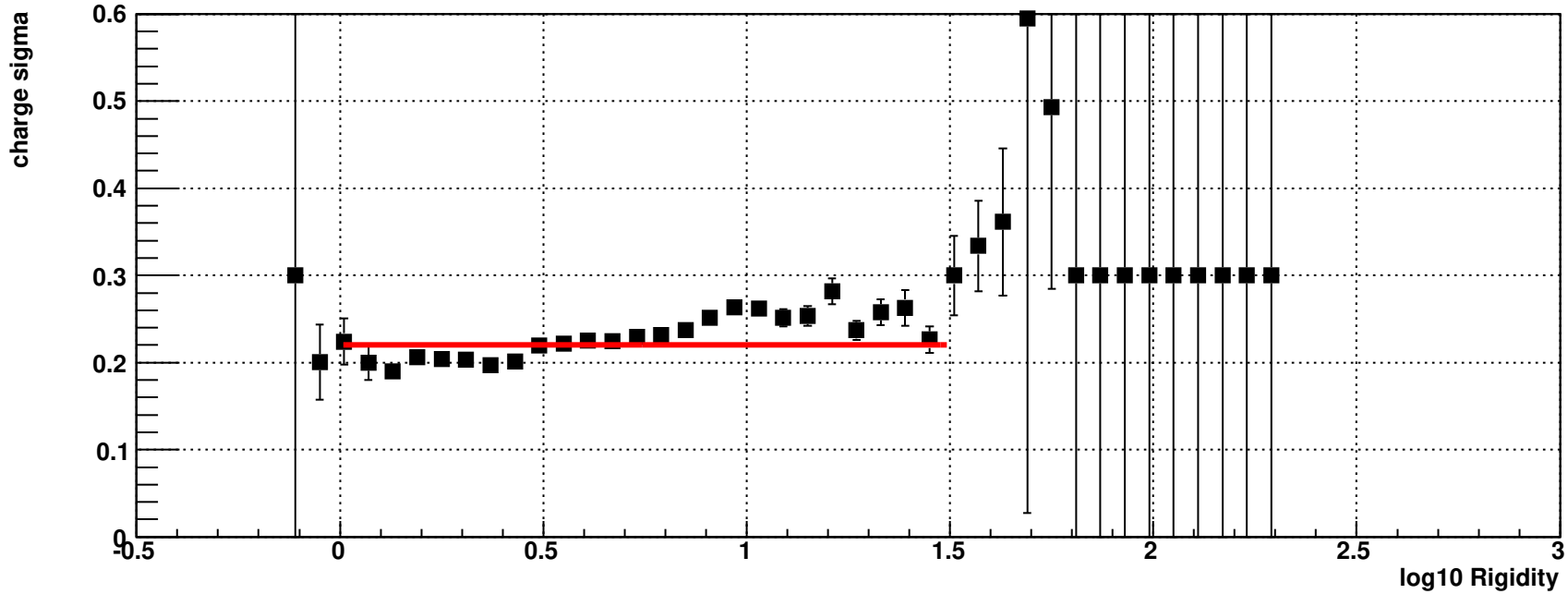

1_rig_charge_pre22_3
1_rig_charge_pre22_3
Entries 5768
Entries: 40430
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

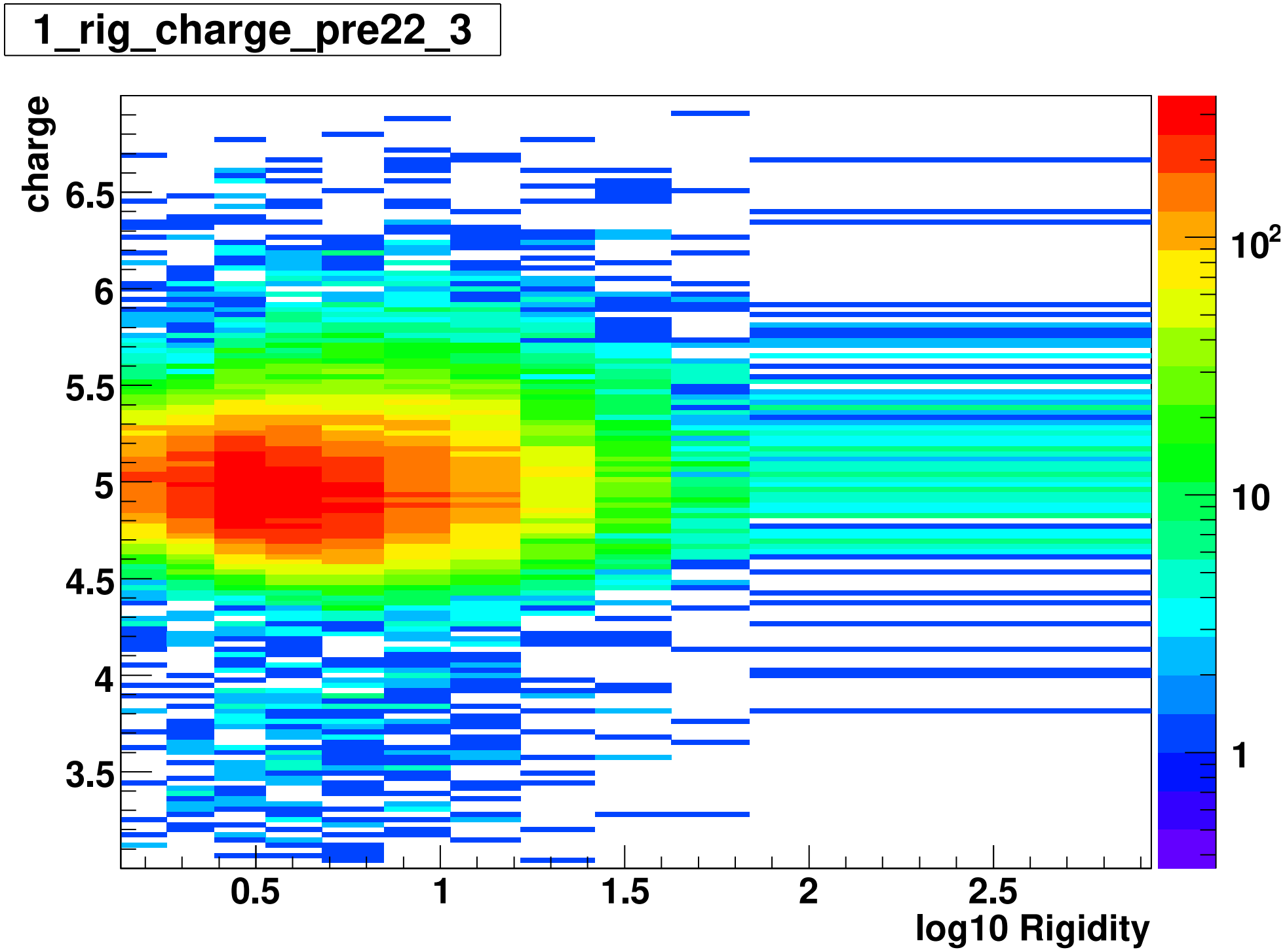


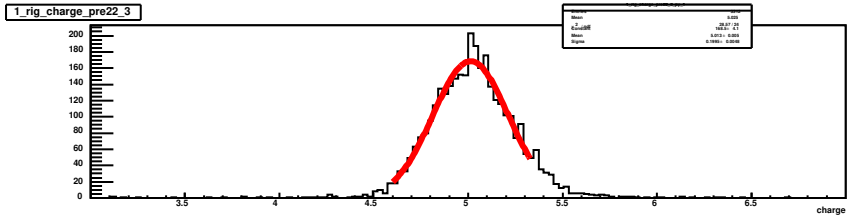
1_rig_charge_pre22_3 Boron

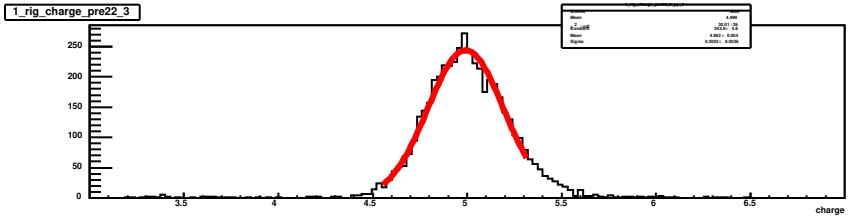


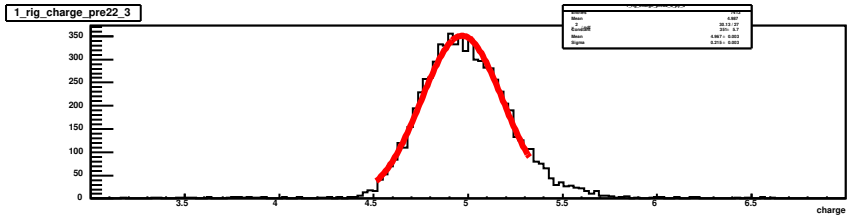
1_rig_charge_pre22_3 Boron

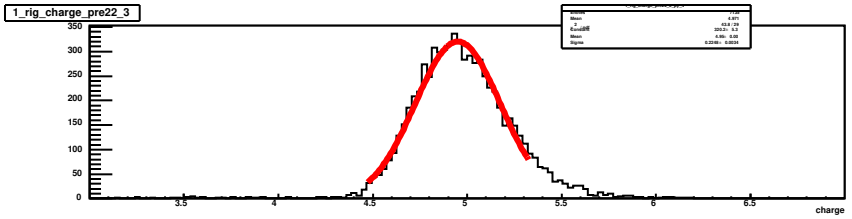


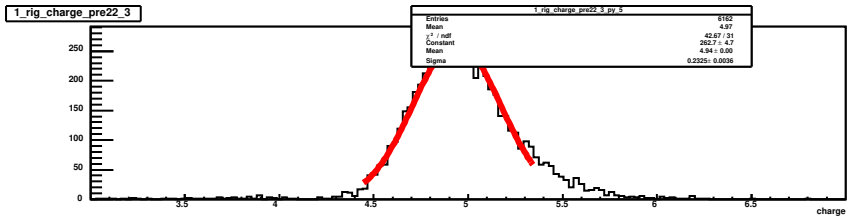

1_rig_charge_pre22_3
charge
6.5
6
5.5
5
4.5
4
3.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

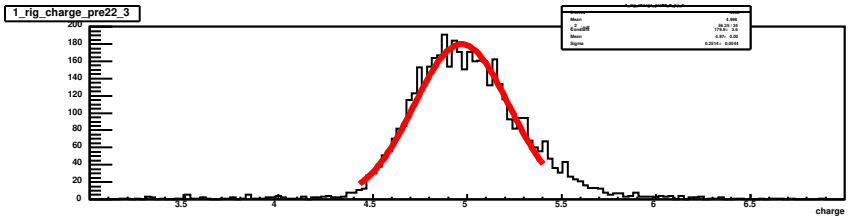

1_rig_charge_pre22_3
charge

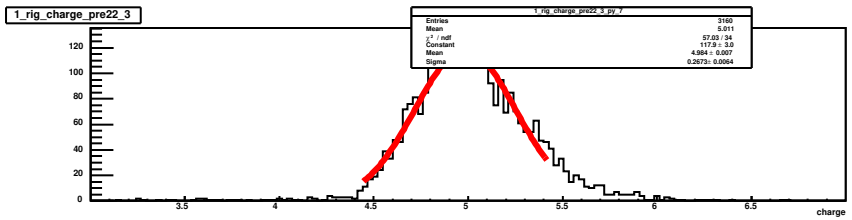

1_rig_charge_pre22_3
charge

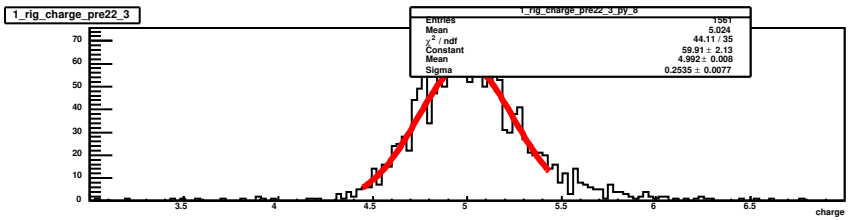

1_rig_charge_pre22_3
charge

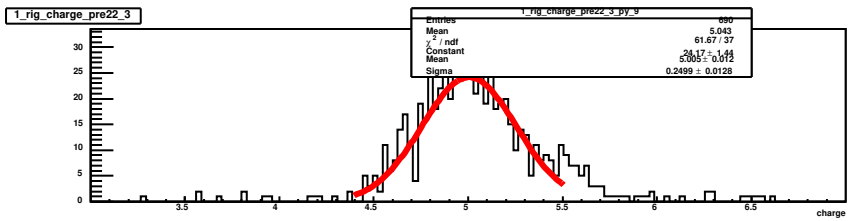

1_rig_charge_pre22_3
charge

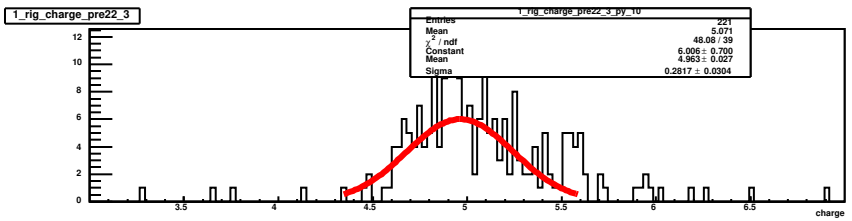

1_rig_charge_pre22_3
1_rig_charge_pre22_3_py_5
Entries 6162
Mean 4.97
χ² / ndf 42.67 / 31
Constant 262.7 ± 4.7
Mean 4.94 ± 0.00
Sigma 0.2325± 0.0036
charge

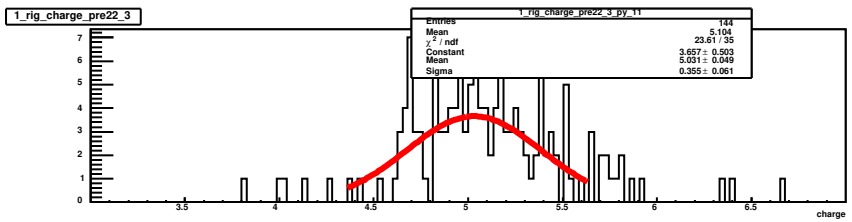

1_rig_charge_pre22_3
charge


1_rig_charge_pre22_3
1_rig_charge_pre22_3_py_7
Entries 3160
Mean 5.011
χ² / ndf 57.03 / 34
Constant 117.9 ± 3.0
Mean 4.984 ± 0.007
Sigma 0.2673± 0.0064
charge

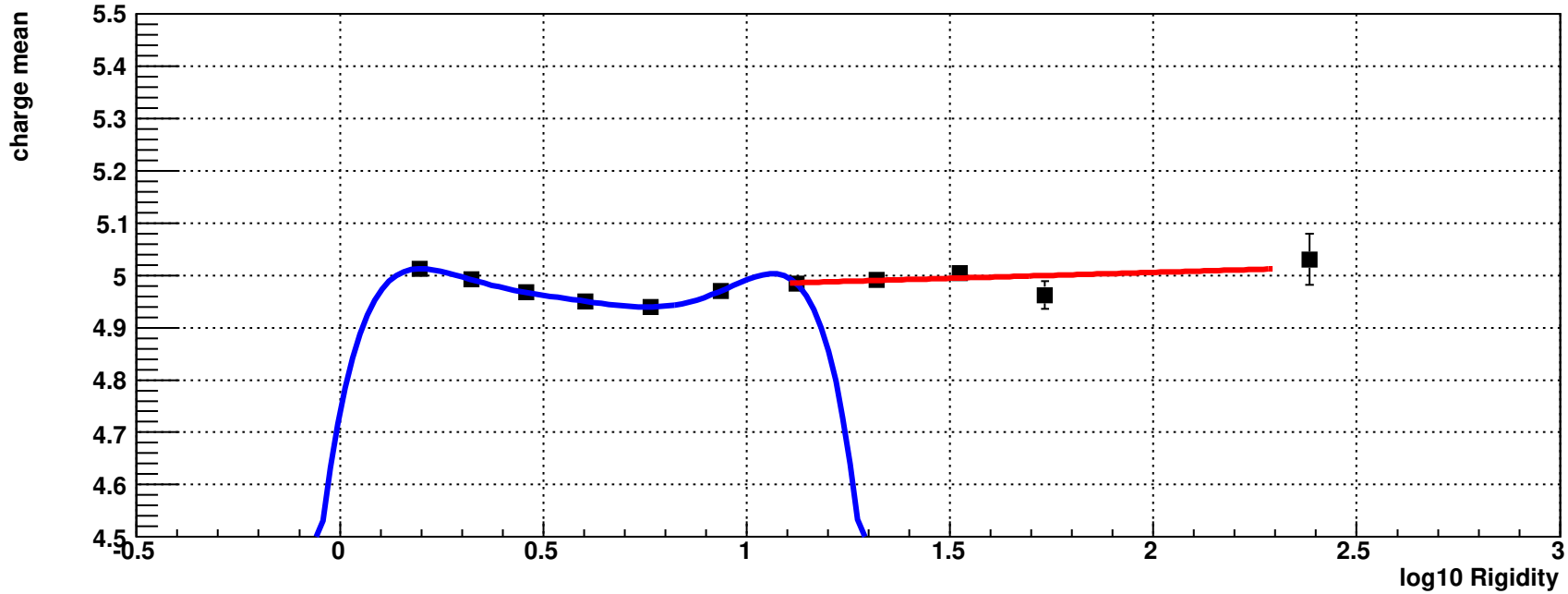

1_rig_charge_pre22_3
1_rig_charge_pre22_3_py_8
Entries 1561
Mean 5.024
χ² / ndf 44.11 / 35
Constant 59.91 ± 2.13
Mean 4.992 ± 0.008
Sigma 0.2535 ± 0.0077
charge


1_rig_charge_pre22_3
1_rig_charge_pre22_3_py_9
Entries 890
Mean 5.043
χ² / ndf 61.67 / 37
Constant 24.17 ± 1.44
Mean 5.005 ± 0.012
Sigma 0.2499 ± 0.0128
charge

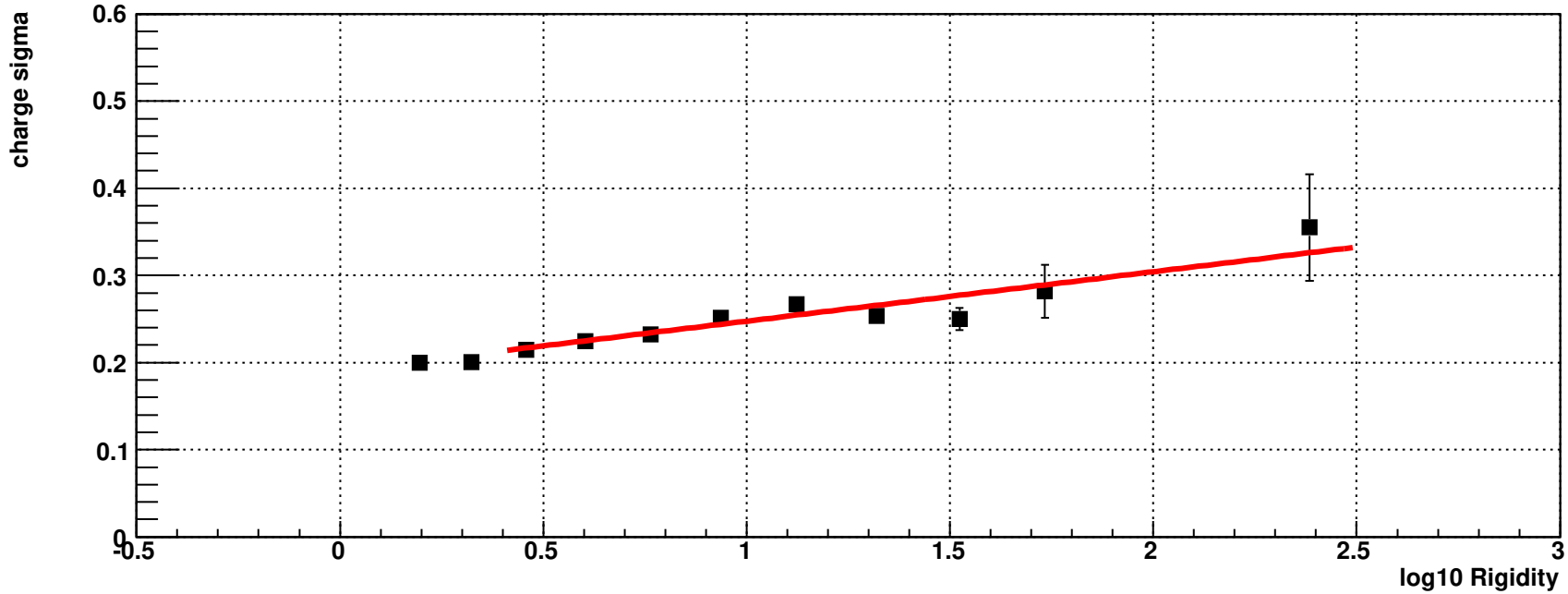

1_rig_charge_pre22_3
1_rig_charge_pre22_3_py_10
Entries 221
Mean 5.071
χ² / ndf 48.08 / 39
Constant 6.006 ± 0.700
Mean 4.963 ± 0.027
Sigma 0.2817 ± 0.0304
charge

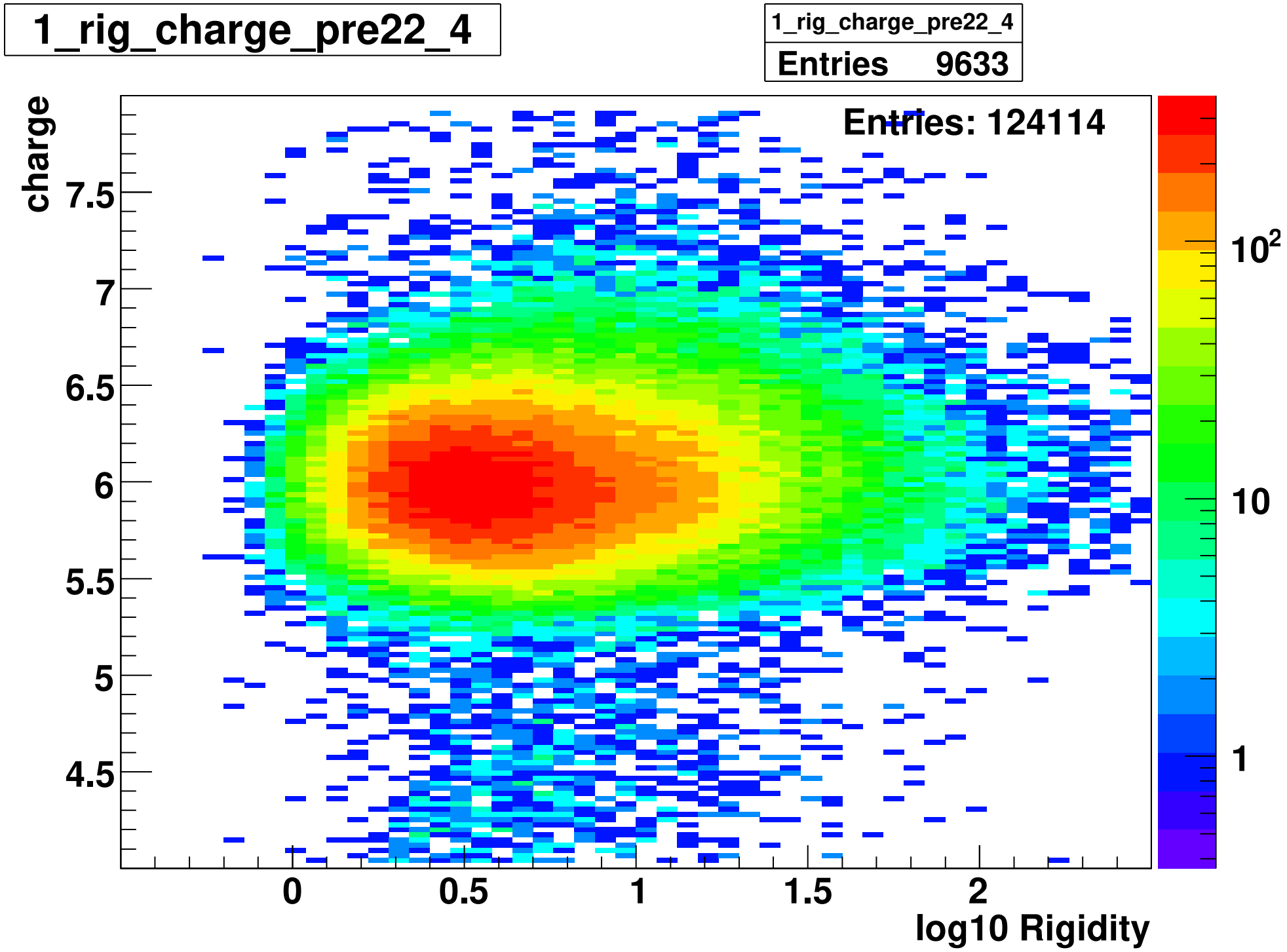

1_rig_charge_pre22_3
1_rig_charge_pre22_3_py_11
Entries 144
Mean 5.104
χ² / ndf 23.61 / 35
Constant 3.657 ± 0.503
Mean 5.031 ± 0.049
Sigma 0.355 ± 0.061
charge

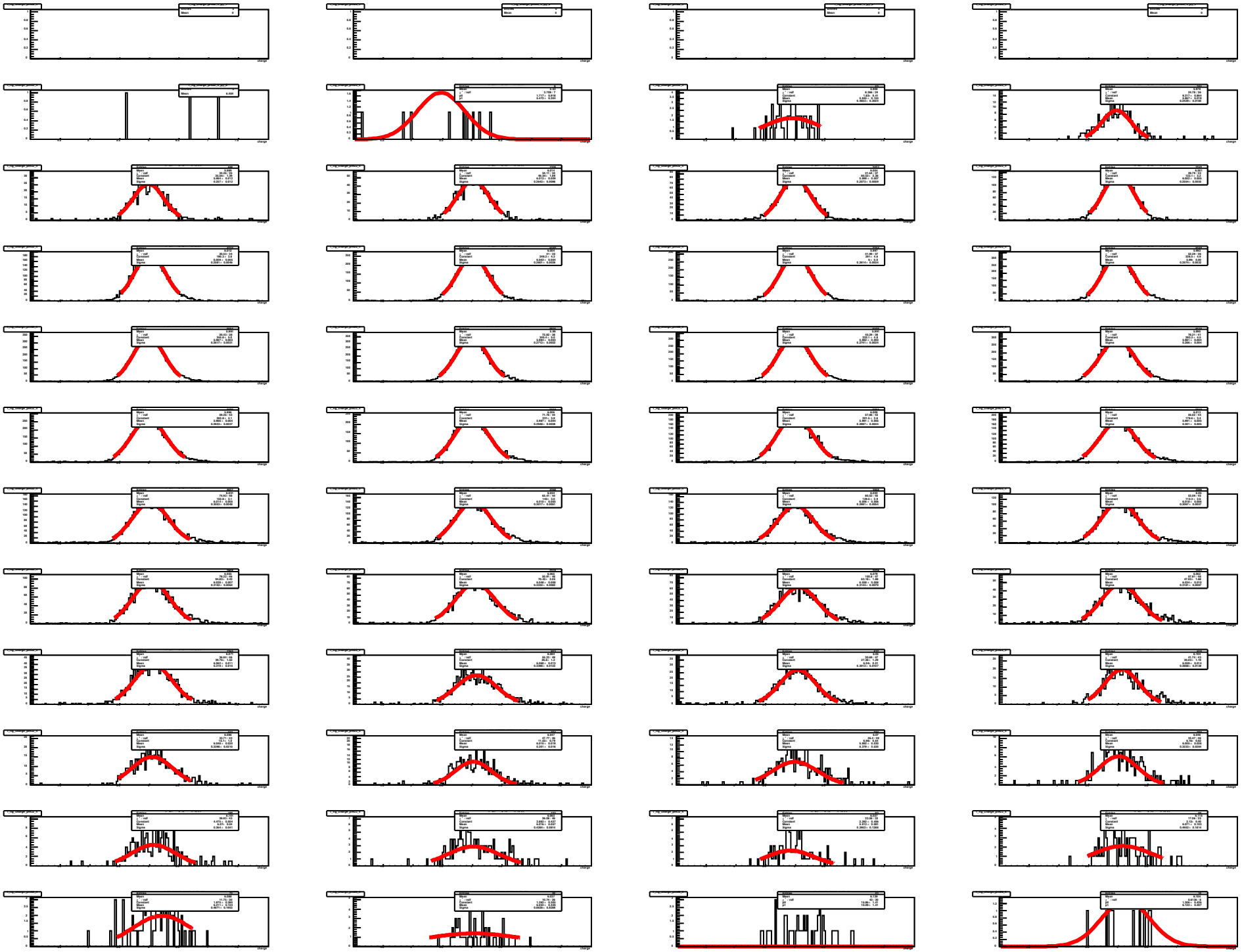
1_rig_charge_pre22_3 Boron



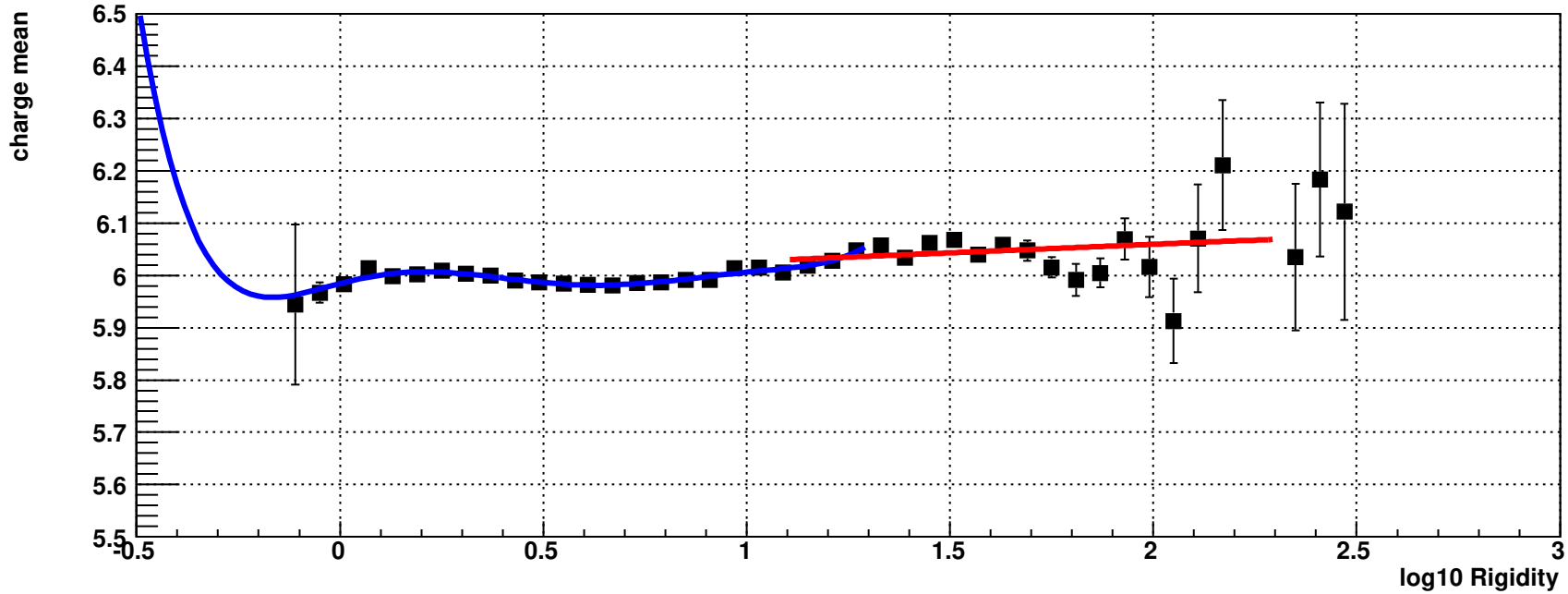
1_rig_charge_pre22_3 Boron



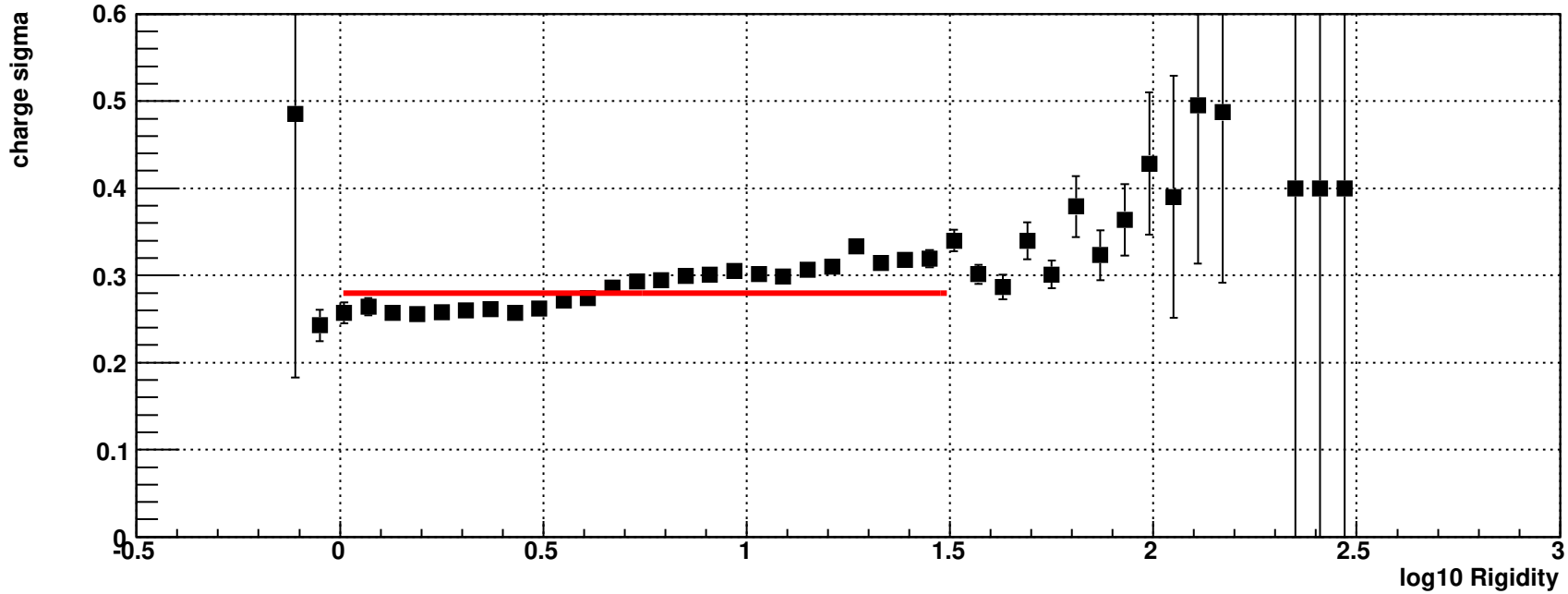

1_rig_charge_pre22_4
1_rig_charge_pre22_4
Entries 9633
Entries: 124114
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



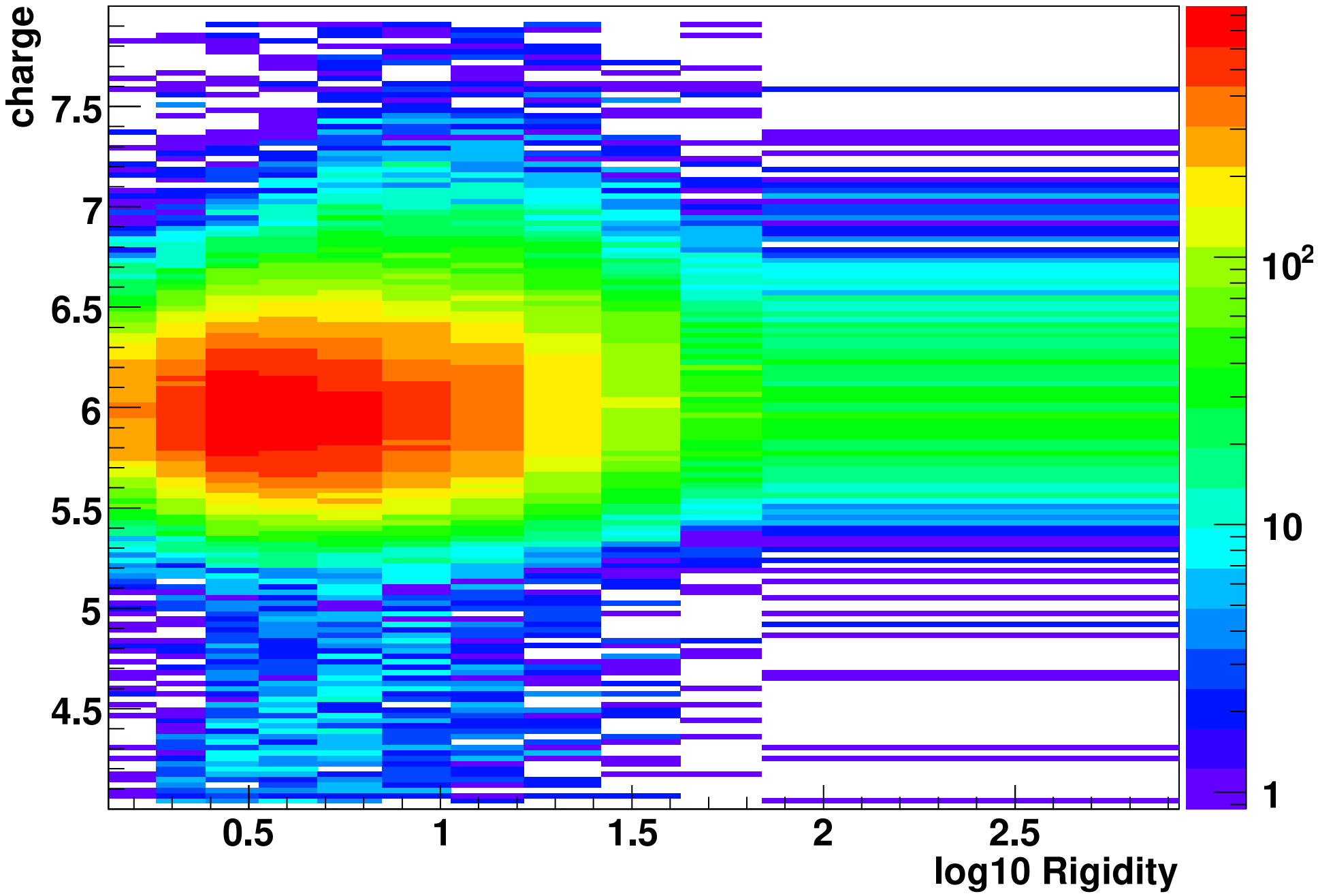
1_rig_charge_pre22_4 Carbon

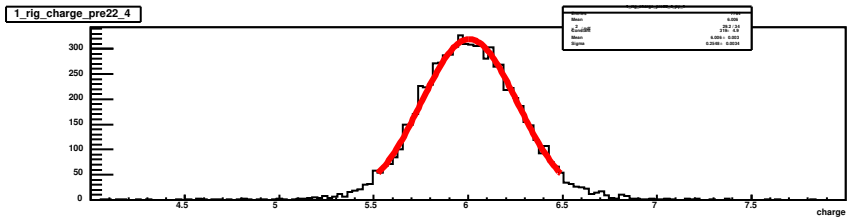


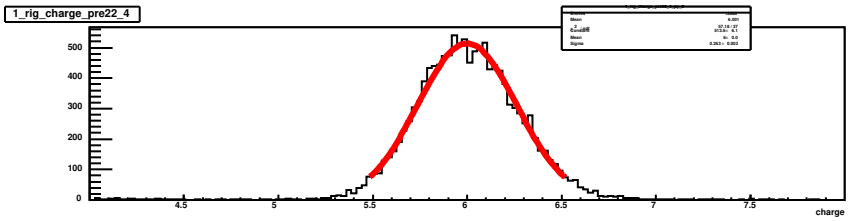
1_rig_charge_pre22_4 Carbon

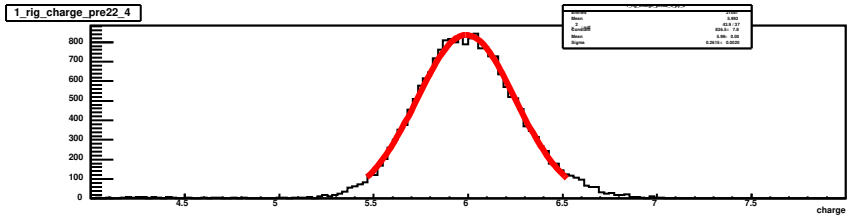


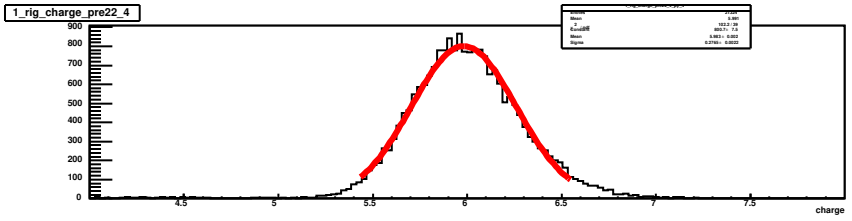
1_rig_charge_pre22_4

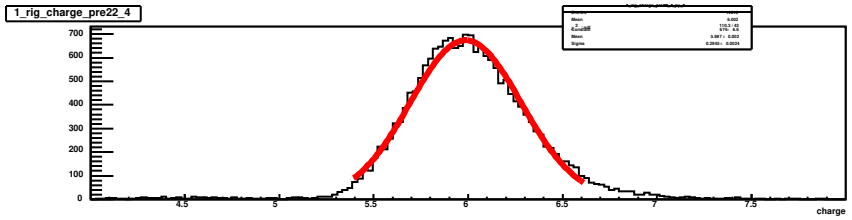


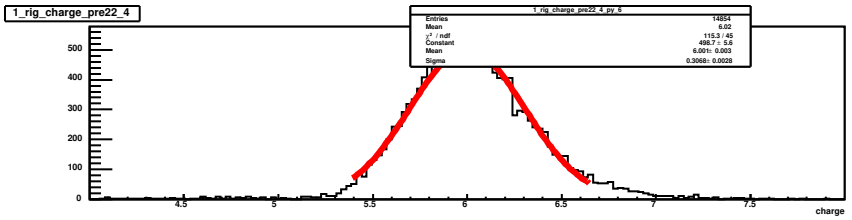

1_rig_charge_pre22_4
charge

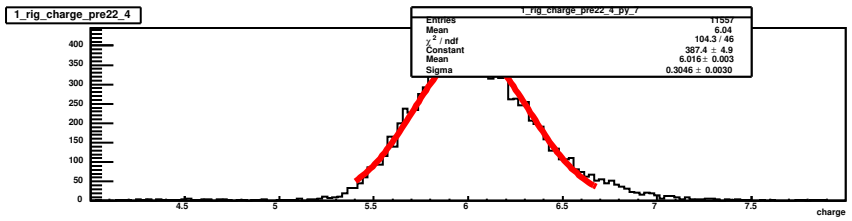

1_rig_charge_pre22_4
charge

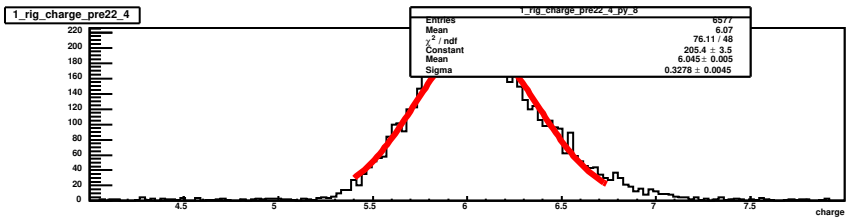

1_rig_charge_pre22_4
charge

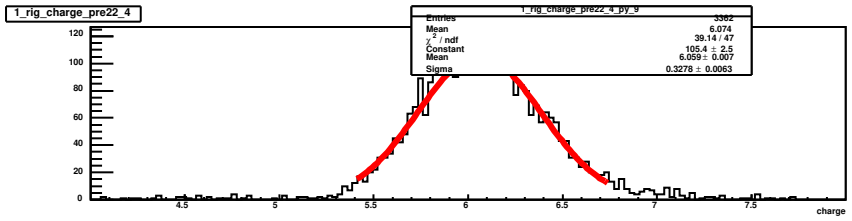

1_rig_charge_pre22_4
charge

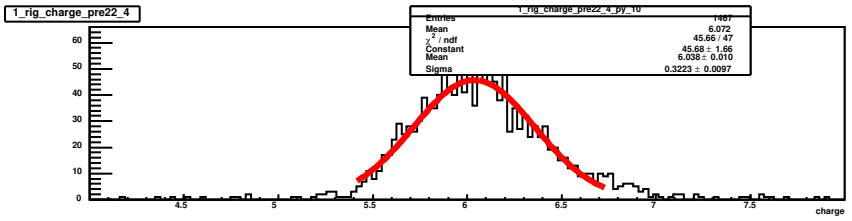

1_rig_charge_pre22_4
charge

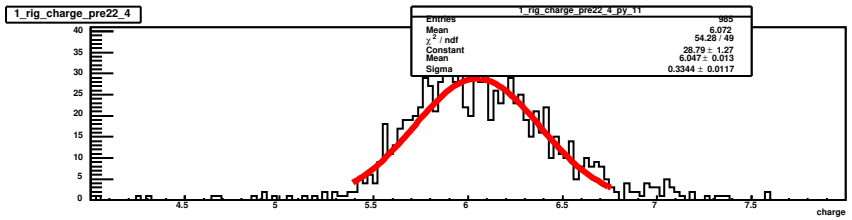

1_rig_charge_pre22_4
1_rig_charge_pre22_4_py_6
Entries 14854
Mean 6.02
χ² / ndf 115.3 / 45
Constant 498.7 ± 5.6
Mean 6.001 ± 0.003
Sigma 0.3068 ± 0.0028
charge


1_rig_charge_pre22_4
1_rig_charge_pre22_4_py_7
Entries 11557
Mean 6.04
χ² / ndf 104.3 / 46
Constant 387.4 ± 4.9
Mean 6.016 ± 0.003
Sigma 0.3046 ± 0.0030
charge

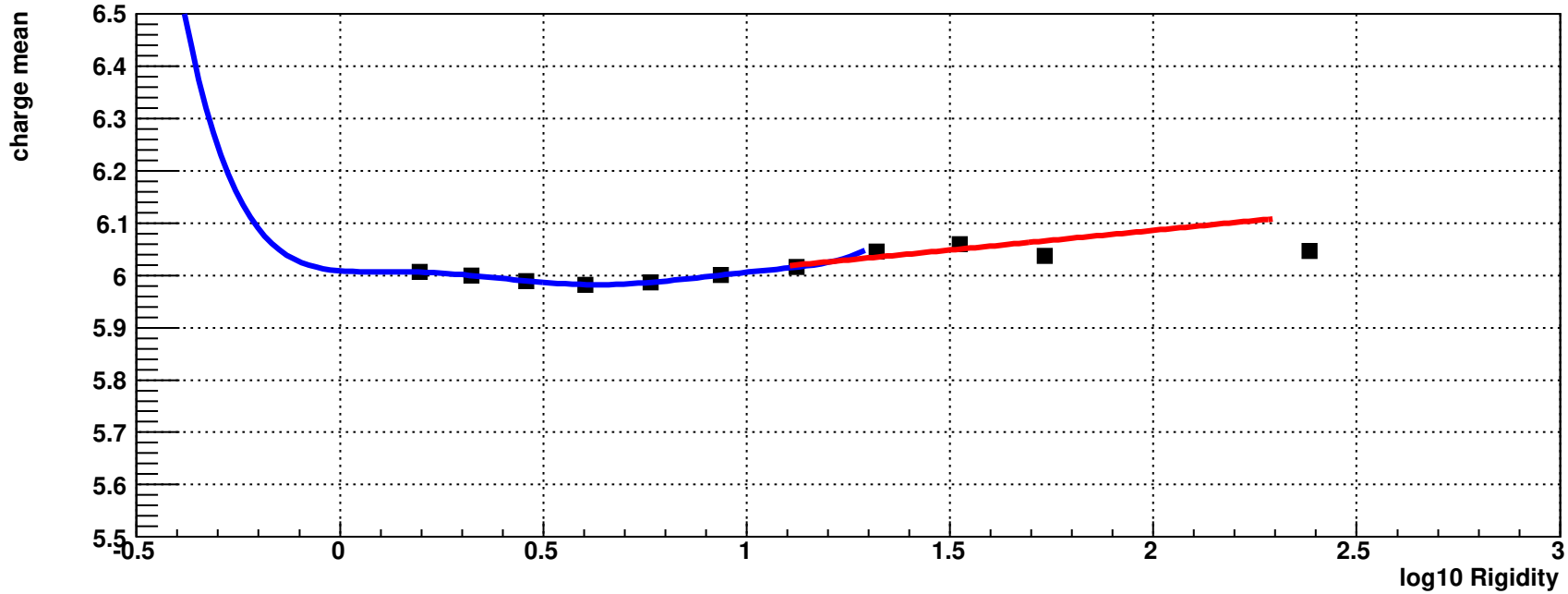

1_rig_charge_pre22_4
1_rig_charge_pre22_4_py_8
Entries 6577
Mean 6.07
χ² / ndf 76.11 / 48
Constant 205.4 ± 3.5
Mean 6.045 ± 0.005
Sigma 0.3278 ± 0.0045
charge


1_rig_charge_pre22_4
1_rig_charge_pre22_4_py_9
Entries 3302
Mean 6.074
χ² / ndf 39.14 / 47
Constant 105.4 ± 2.5
Mean 6.059 ± 0.007
Sigma 0.3278 ± 0.0063
charge

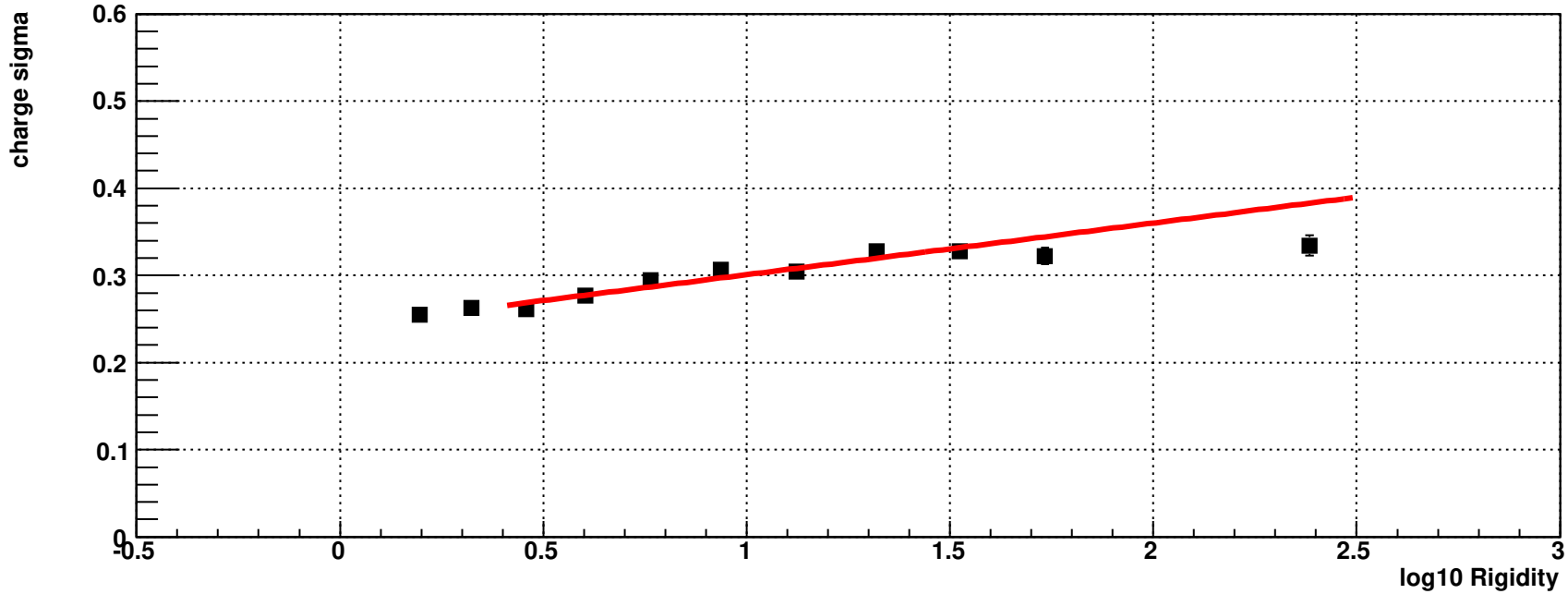

1_rig_charge_pre22_4
1_rig_charge_pre22_4_py_10
Entries 1487
Mean 6.072
χ² / ndf 45.66 / 47
Constant 45.68 ± 1.66
Mean 6.038 ± 0.010
Sigma 0.3223 ± 0.0097
charge

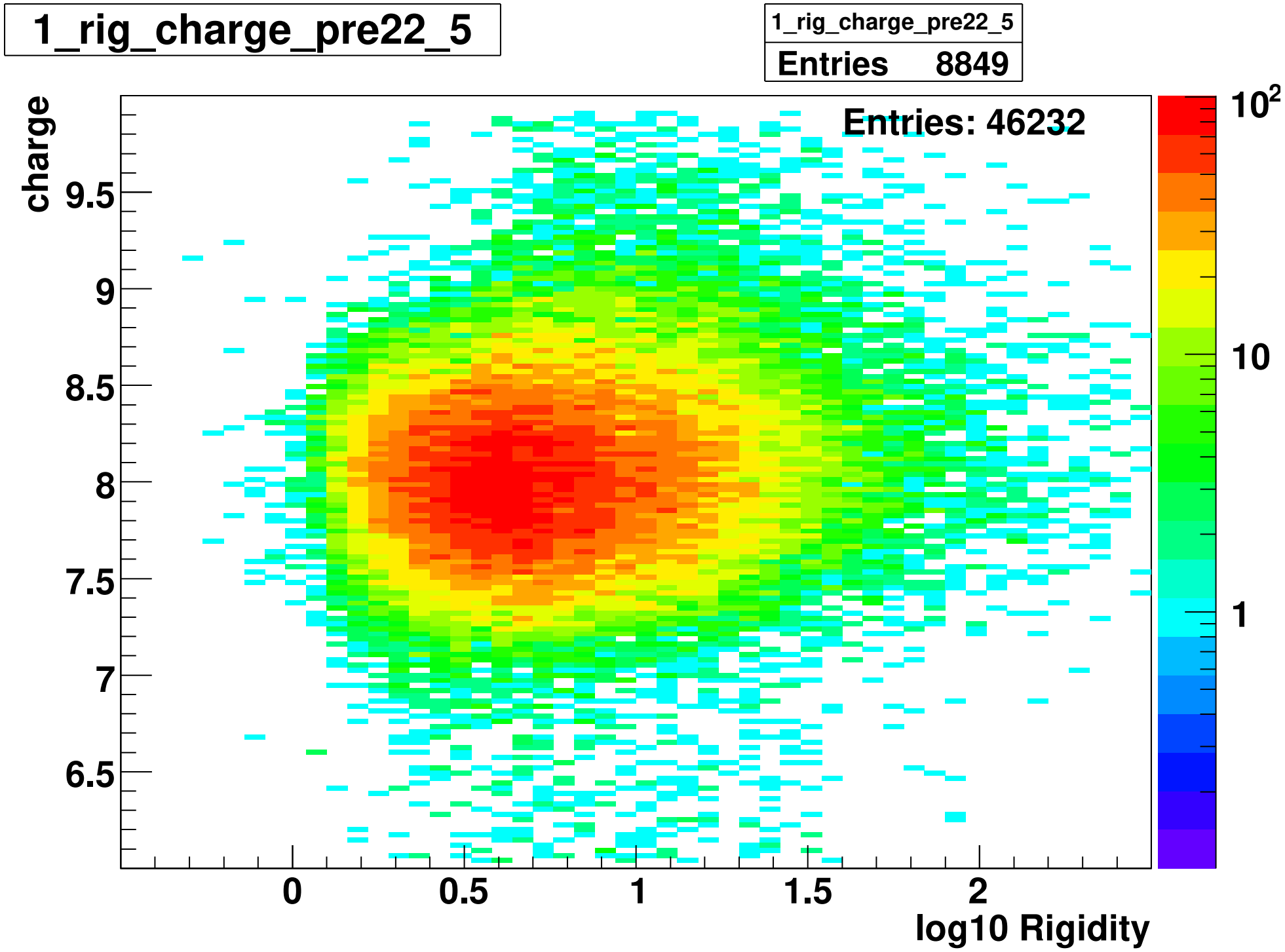

1_rig_charge_pre22_4
1_rig_charge_pre22_4_py_11
Entries 985
Mean 6.072
χ² / ndf 54.28 / 49
Constant 28.79 ± 1.27
Mean 6.047 ± 0.013
Sigma 0.3344 ± 0.0117
charge

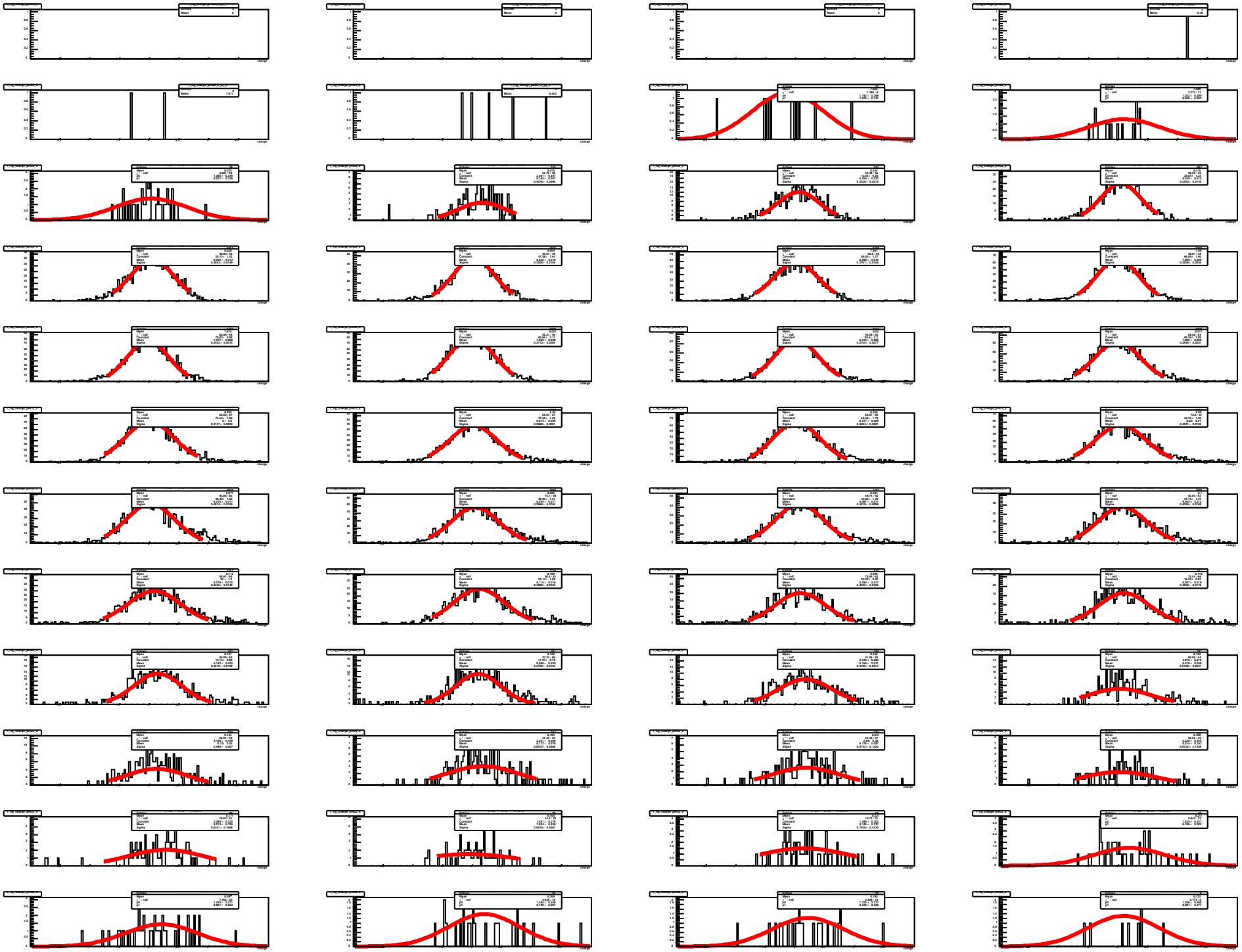
1_rig_charge_pre22_4 Carbon



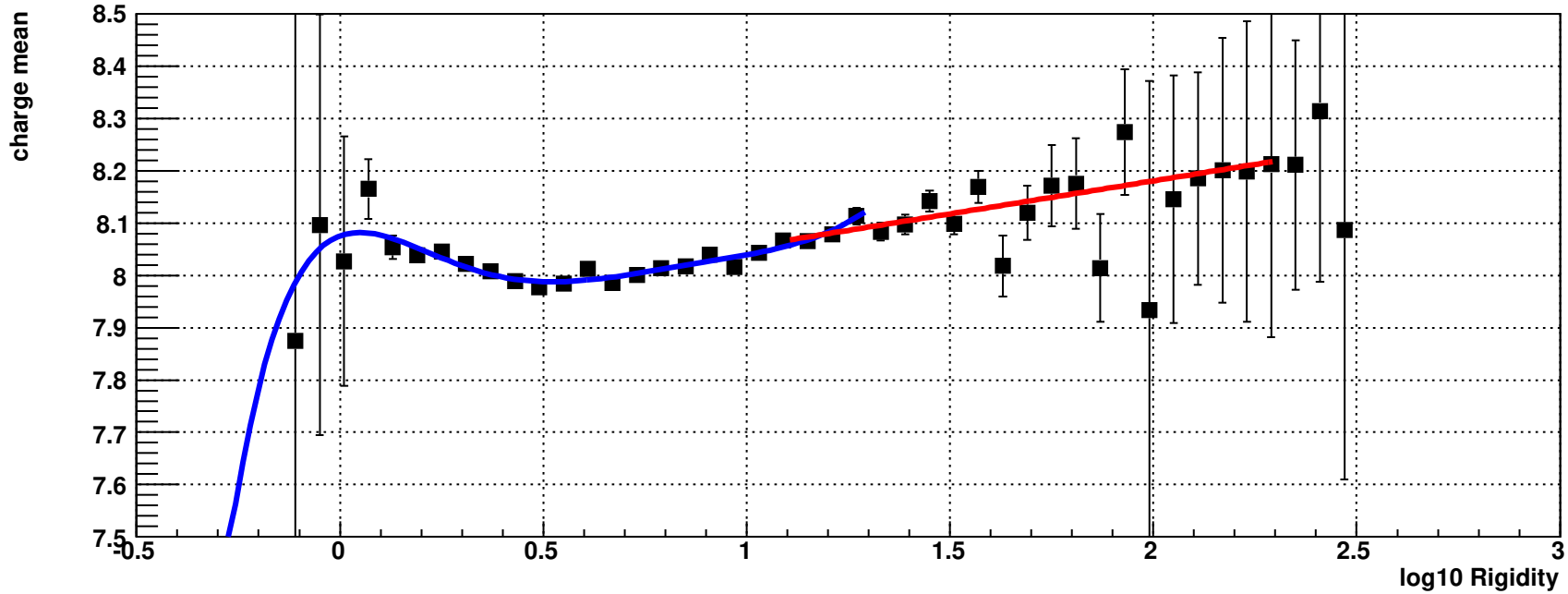
1_rig_charge_pre22_4 Carbon



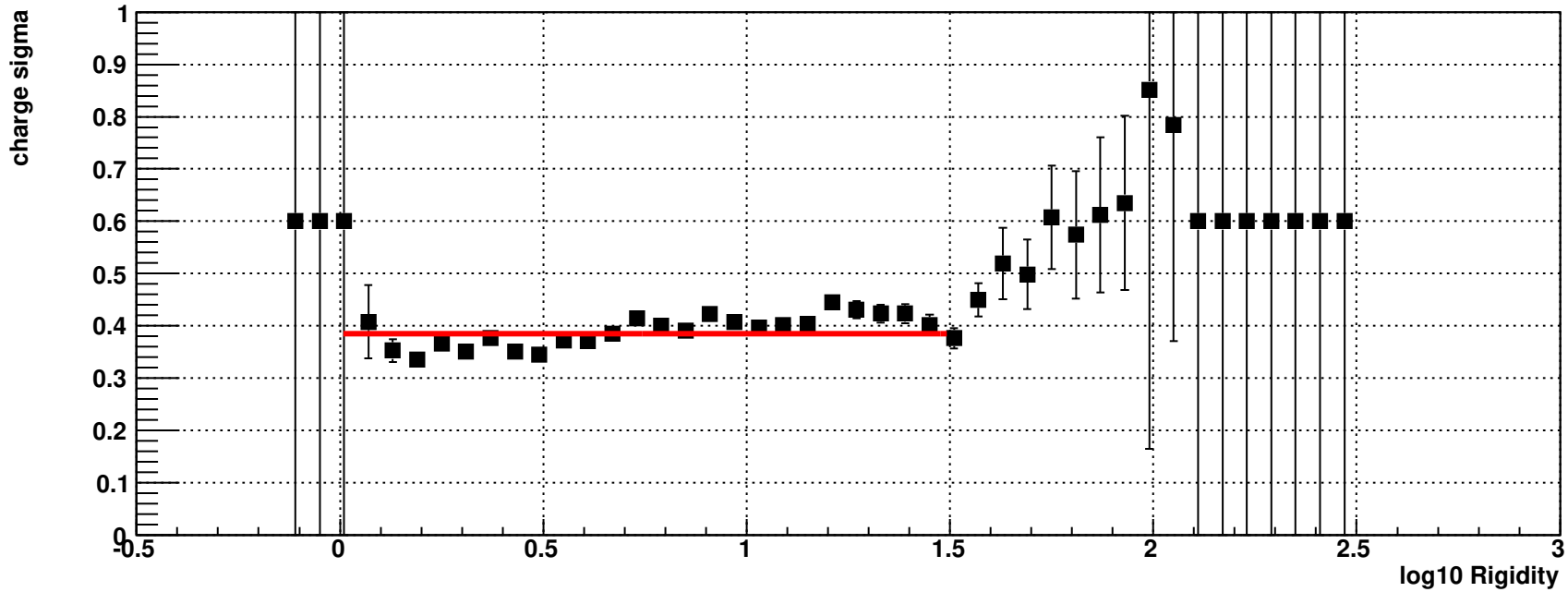

1_rig_charge_pre22_5
1_rig_charge_pre22_5
Entries 8849
Entries: 46232
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



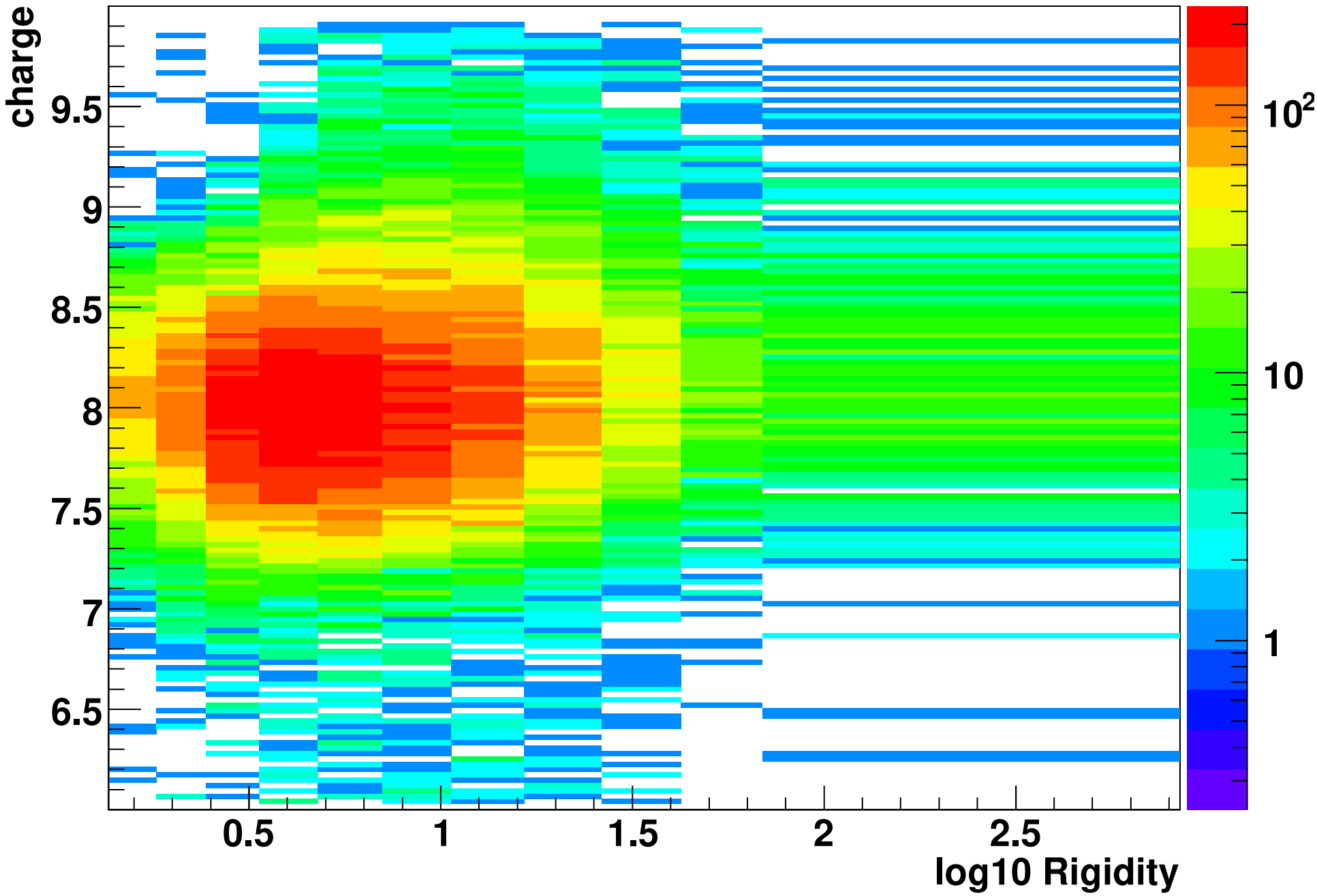
1_rig_charge_pre22_5_py_50

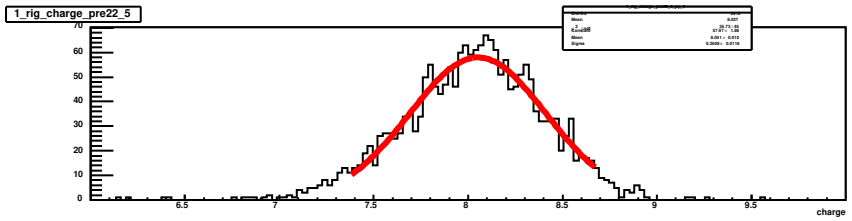


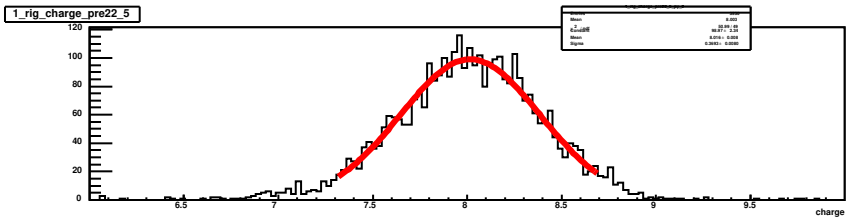
1_rig_charge_pre22_5_py_50

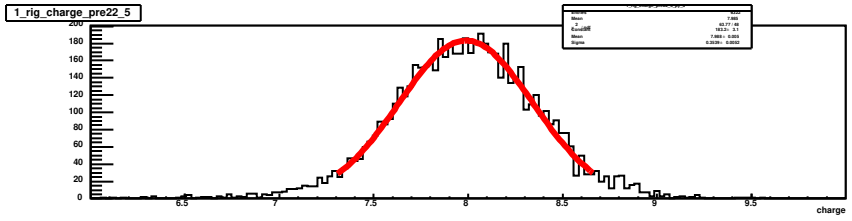


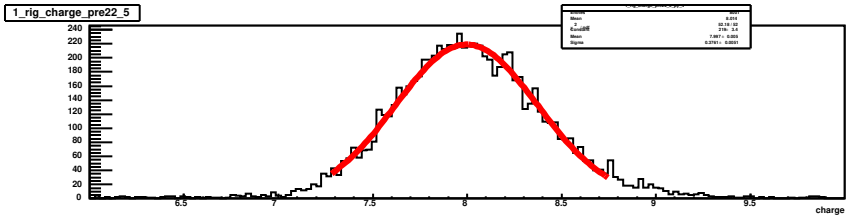
1_rig_charge_pre22_5

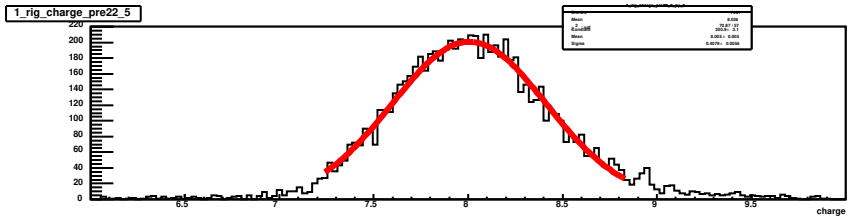


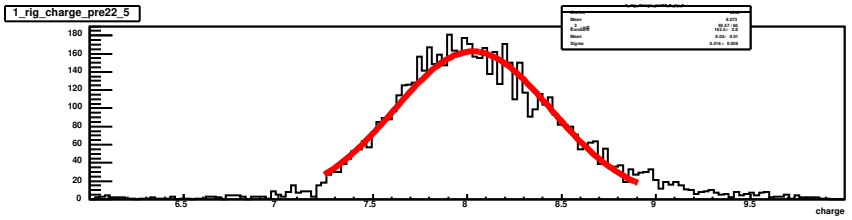

1_rig_charge_pre22_5
charge

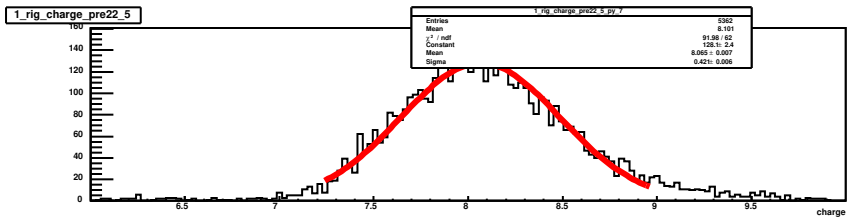

1_rig_charge_pre22_5
charge

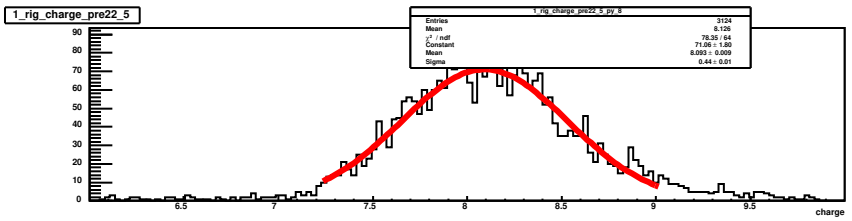

1_rig_charge_pre22_5
charge

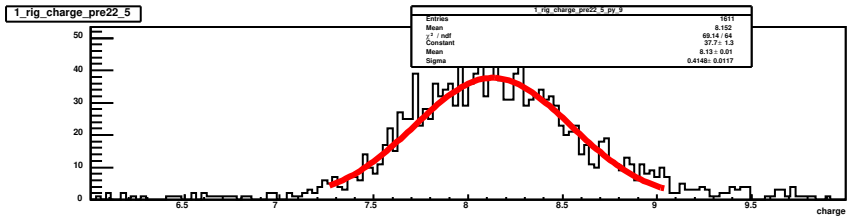

1_rig_charge_pre22_5
charge

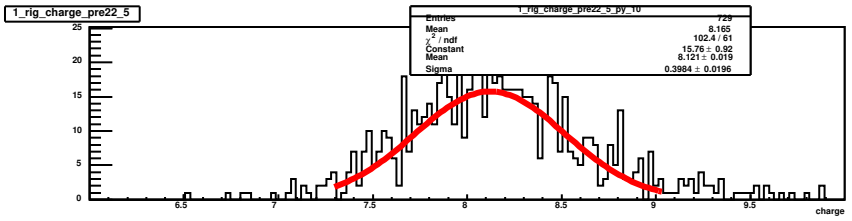

1_rig_charge_pre22_5
charge

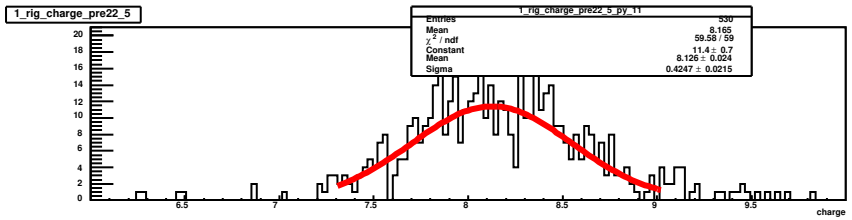

1_rig_charge_pre22_5
charge


1_rig_charge_pre22_5
1_rig_charge_pre22_5_py_7
Entries 8362
Mean 8.101
χ² / ndf 91.88 / 62
Constant 128.1 ± 2.4
Mean 8.065 ± 0.007
Sigma 0.421 ± 0.006
charge

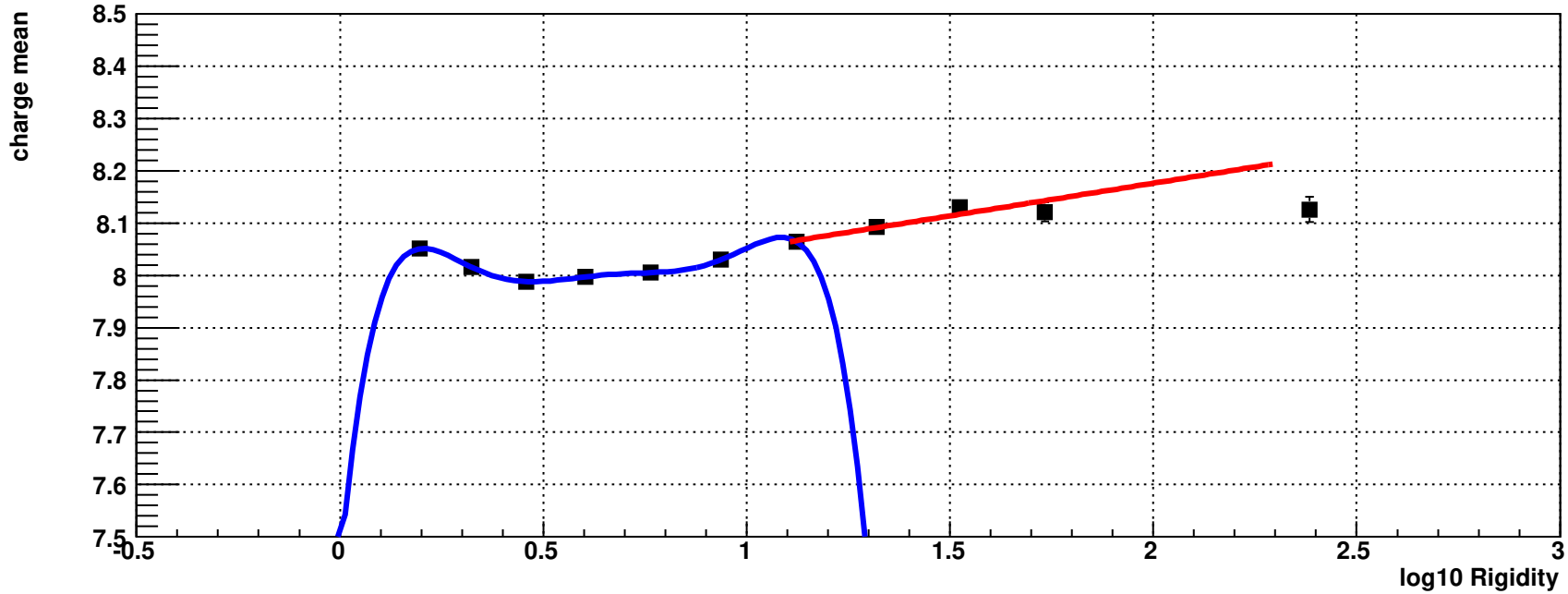

1_rig_charge_pre22_5
1_rig_charge_pre22_5_py_8
Entries 3124
Mean 8.126
χ² / ndf 78.35 / 64
Constant 71.06 ± 1.80
Mean 8.093 ± 0.009
Sigma 0.44 ± 0.01
charge


1_rig_charge_pre22_5
1_rig_charge_pre22_5_py_9
Entries 1611
Mean 8.152
χ² / ndf 69.14 / 64
Constant 37.7 ± 1.3
Mean 8.13 ± 0.01
Sigma 0.4148 ± 0.0117
charge

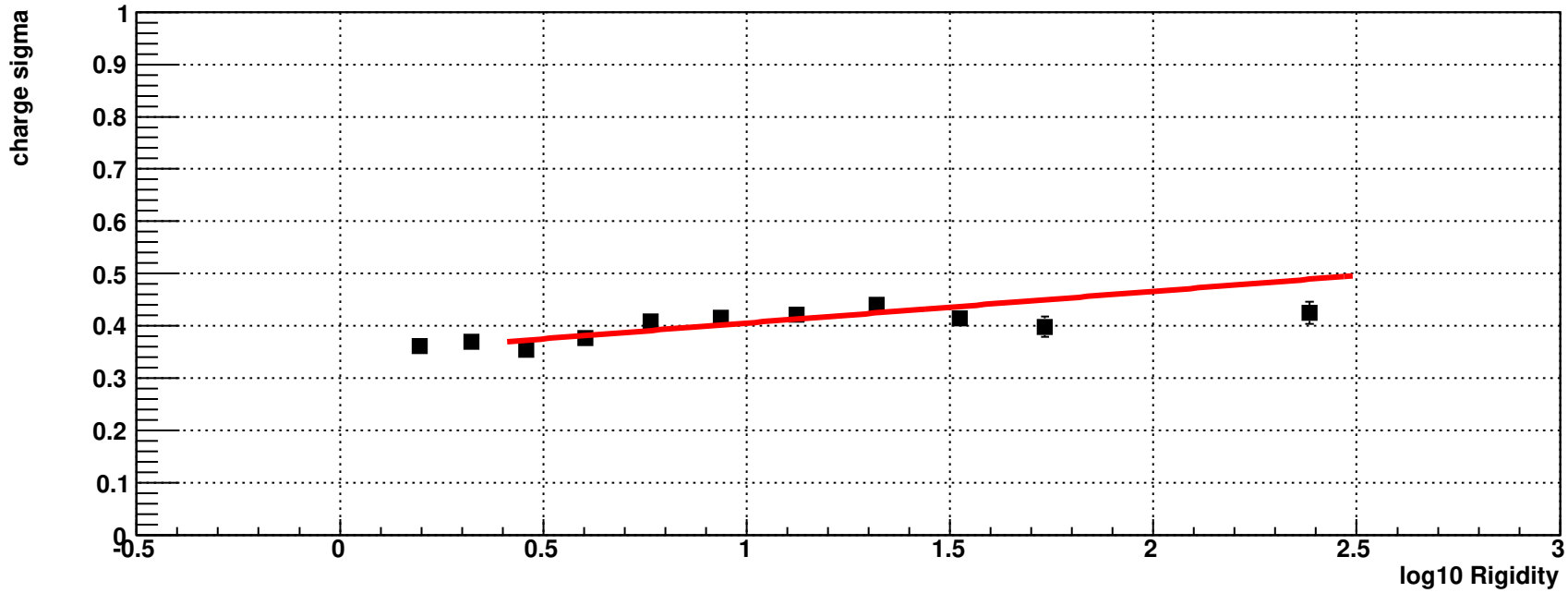

1_rig_charge_pre22_5
1_rig_charge_pre22_5_py_10
Entries 729
Mean 8.165
χ² / ndf 102.4 / 61
Constant 15.76 ± 0.92
Mean 8.121 ± 0.019
Sigma 0.3984 ± 0.0196

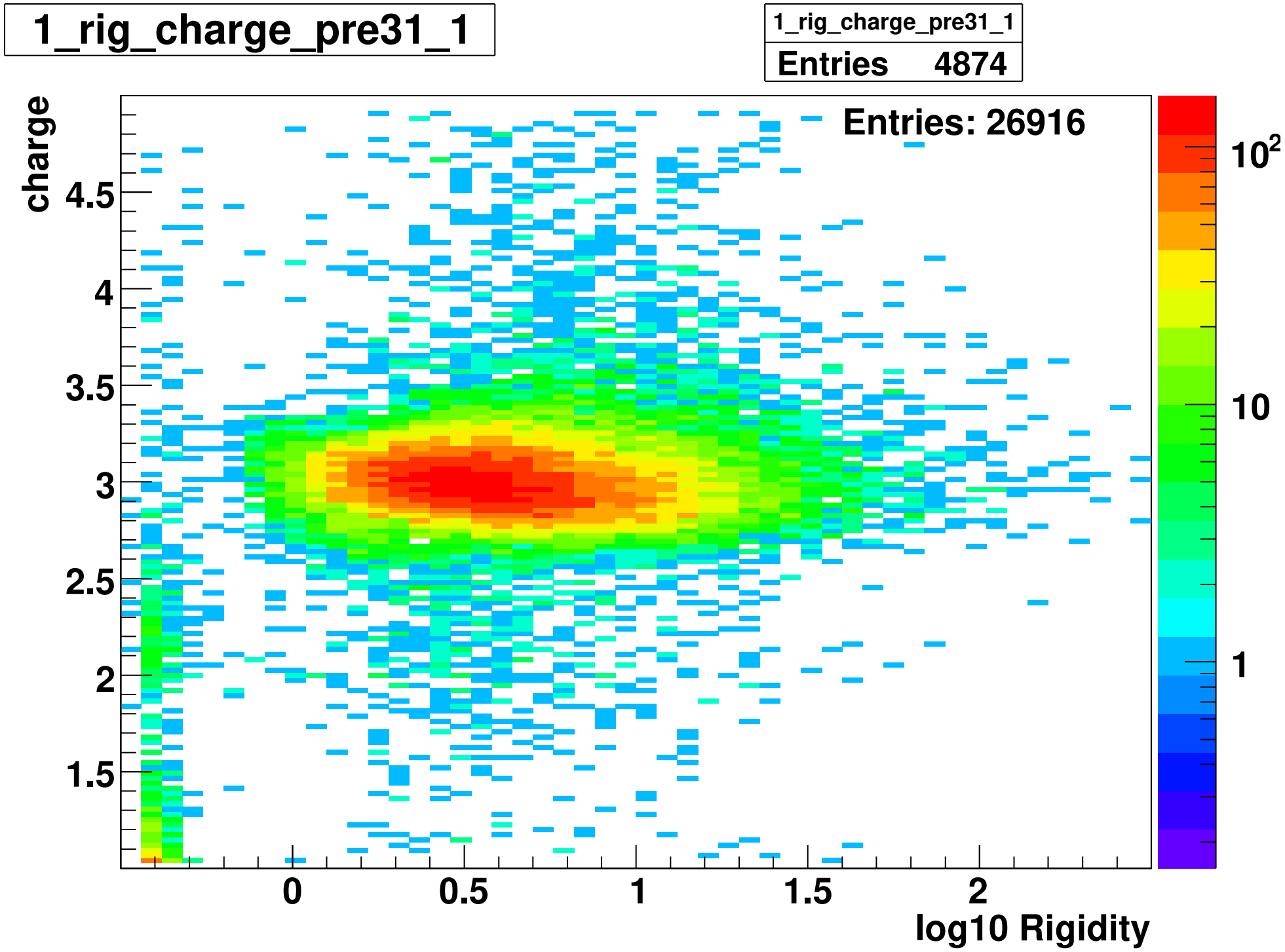

1_rig_charge_pre22_5
1_rig_charge_pre22_5_py_11
Entries 530
Mean 8.165
χ² / ndf 59.58 / 59
Constant 11.4 ± 0.7
Mean 8.126 ± 0.024
Sigma 0.4247 ± 0.0215
charge

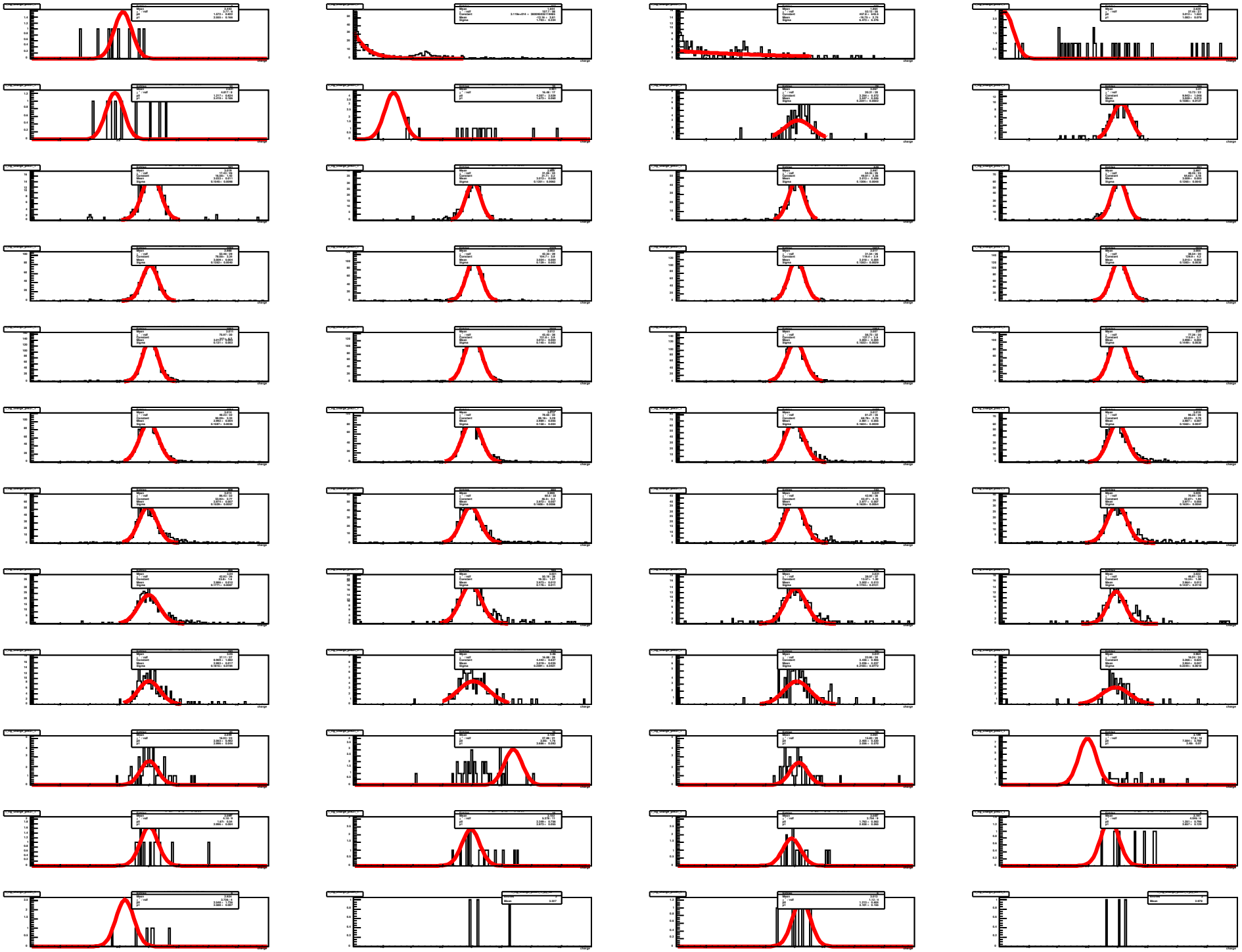
1_rig_charge_pre22_5_py_11



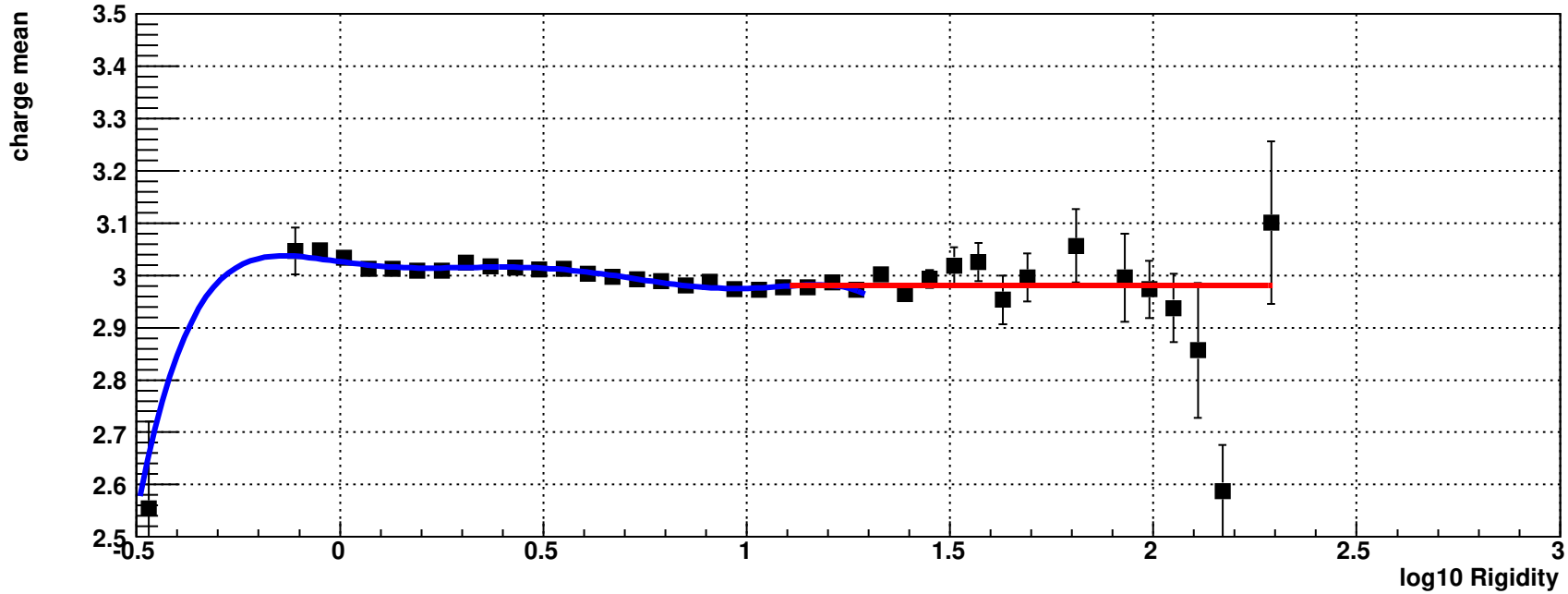
1_rig_charge_pre22_5_py_11



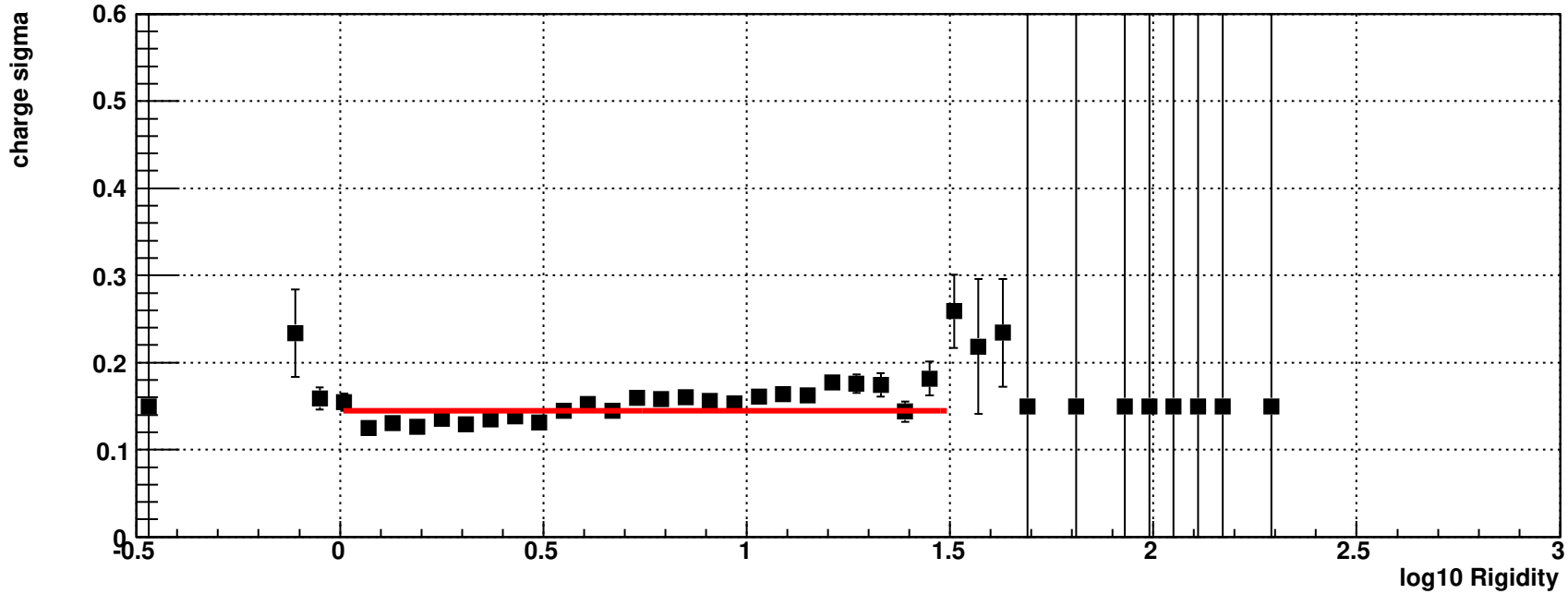

1_rig_charge_pre31_1
1_rig_charge_pre31_1
Entries 4874
Entries: 26916
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

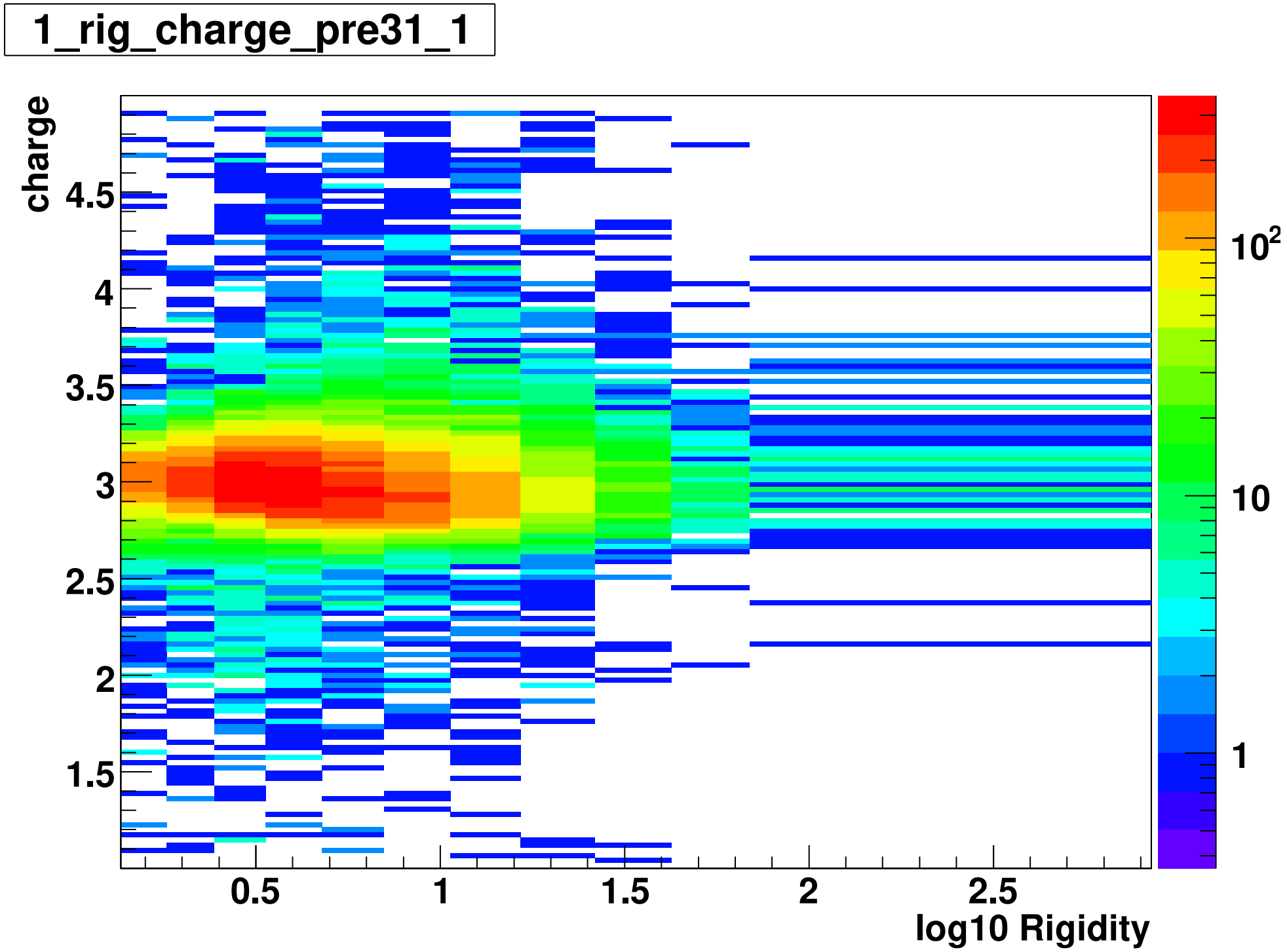


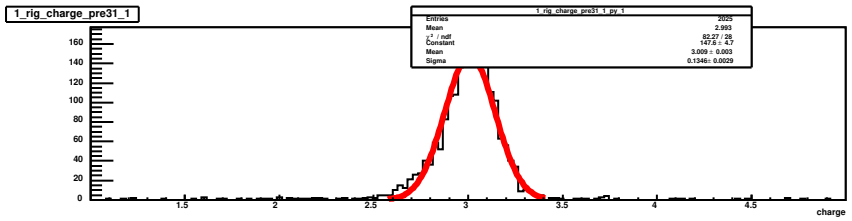
1_rig_charge_pre31_1 Lithium

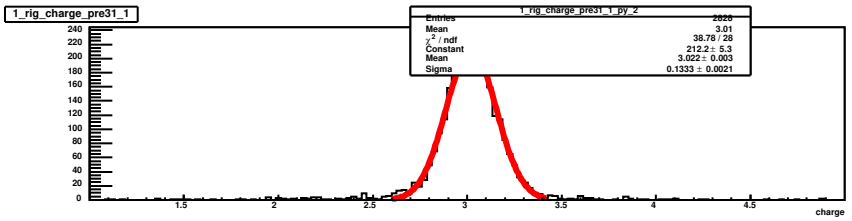


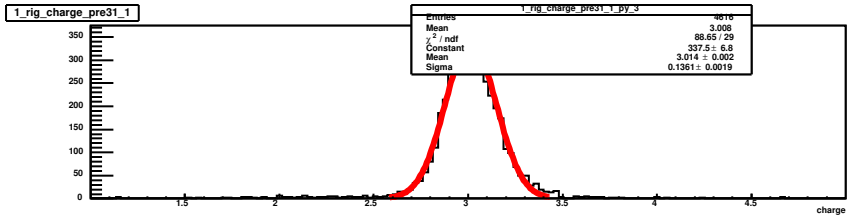
1_rig_charge_pre31_1 Lithium

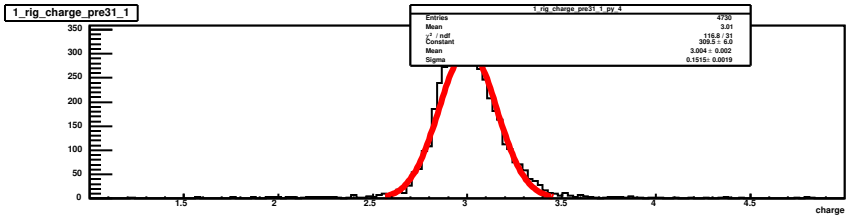


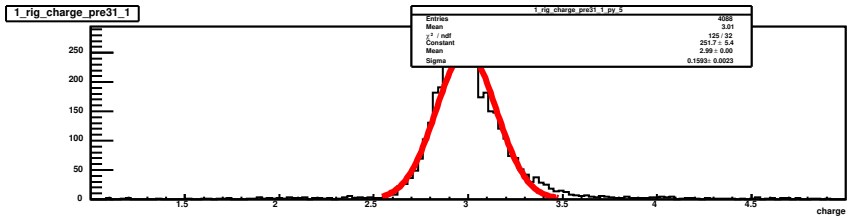

1_rig_charge_pre31_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

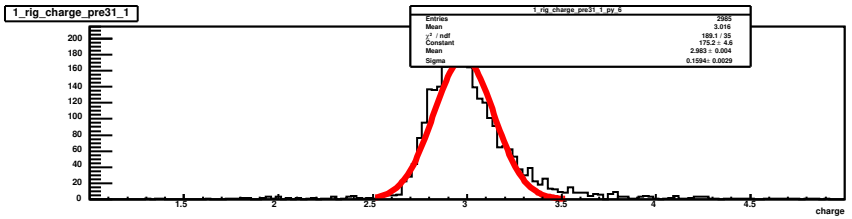

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_1
Entries 3025
Mean 2.993
χ² / ndf 82.27 / 26
Constant 147.8 ± 4.7
Mean 3.009 ± 0.003
Sigma 0.1346 ± 0.0029
charge

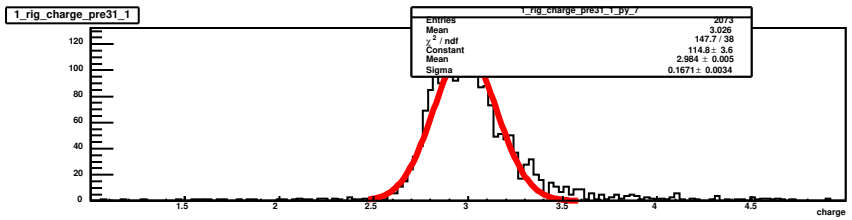

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_2
Entries 2828
Mean 3.01
χ² / ndf 38.78 / 28
Constant 212.2 ± 5.3
Mean 3.022 ± 0.003
Sigma 0.1333 ± 0.0021
charge

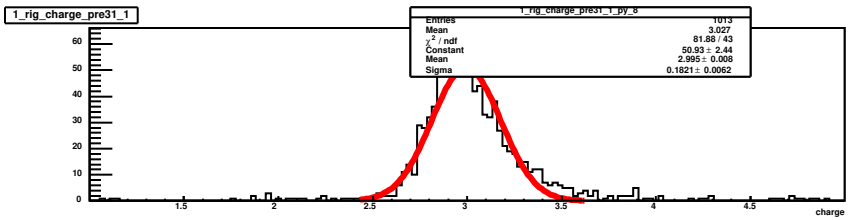

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_3
Entries 4816
Mean 3.008
χ² / ndf 88.65 / 29
Constant 337.5 ± 6.8
Mean 3.014 ± 0.002
Sigma 0.1361 ± 0.0019
charge

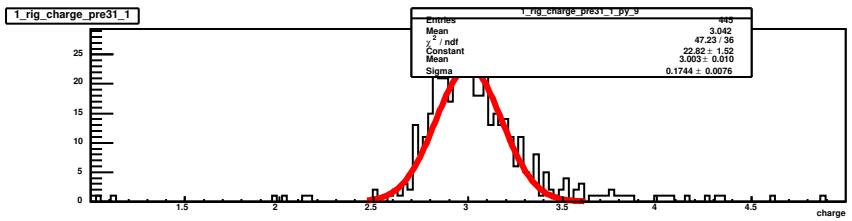

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_4
Entries 4730
Mean 3.01
χ² / ndf 116.8 / 31
Constant 309.5 ± 6.0
Mean 3.004 ± 0.002
Sigma 0.1515 ± 0.0019
charge

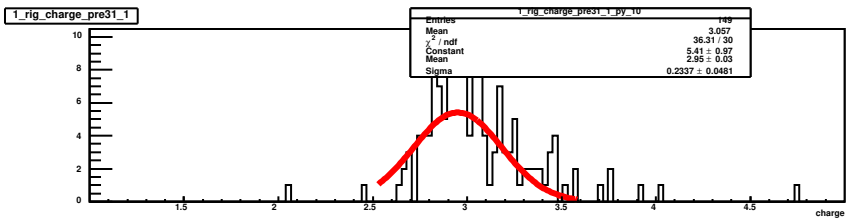

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_5
Entries 4088
Mean 3.01
χ² / ndf 125 / 32
Constant 251.7 ± 5.4
Mean 2.99 ± 0.00
Sigma 0.1593 ± 0.0023
charge

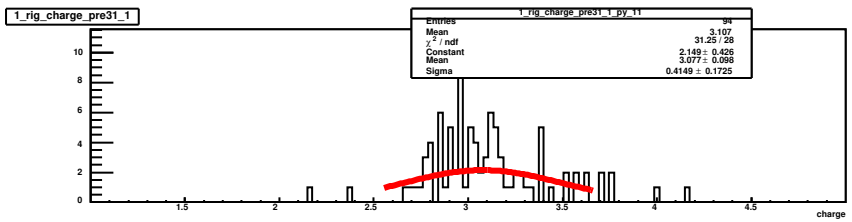

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_6
Entries 2985
Mean 3.016
χ² / ndf 189.1 / 35
Constant 175.2 ± 4.6
Mean 2.983 ± 0.004
Sigma 0.1594 ± 0.0029
charge


1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_7
Entries 2073
Mean 3.026
χ² / ndf 147.7 / 38
Constant 114.8 ± 3.6
Mean 2.984 ± 0.005
Sigma 0.1671 ± 0.0034
charge

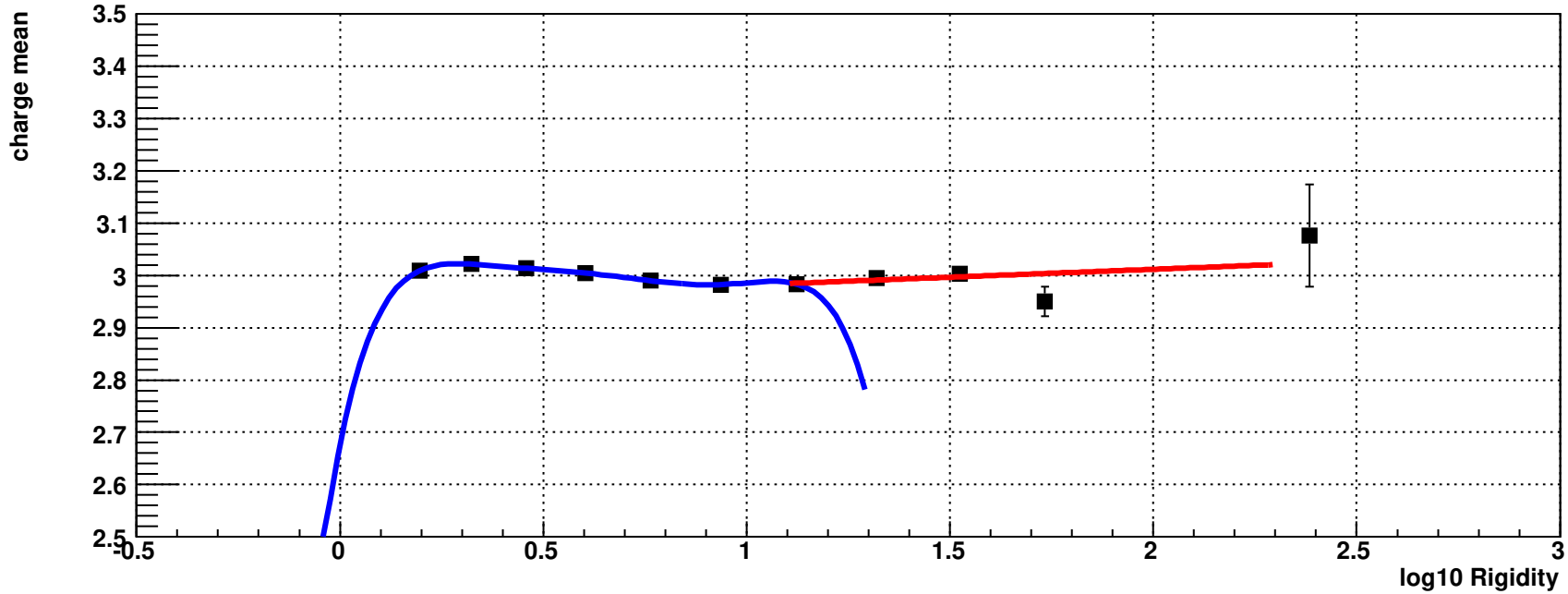

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_8
Entries 1613
Mean 3.027
χ² / ndf 81.88 / 43
Constant 50.93 ± 2.44
Mean 2.995 ± 0.008
Sigma 0.1821 ± 0.0062
charge


1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_9
Entries 445
Mean 3.042
χ² / ndf 47.23 / 36
Constant 22.82 ± 1.52
Mean 3.003 ± 0.010
Sigma 0.1744 ± 0.0076
charge

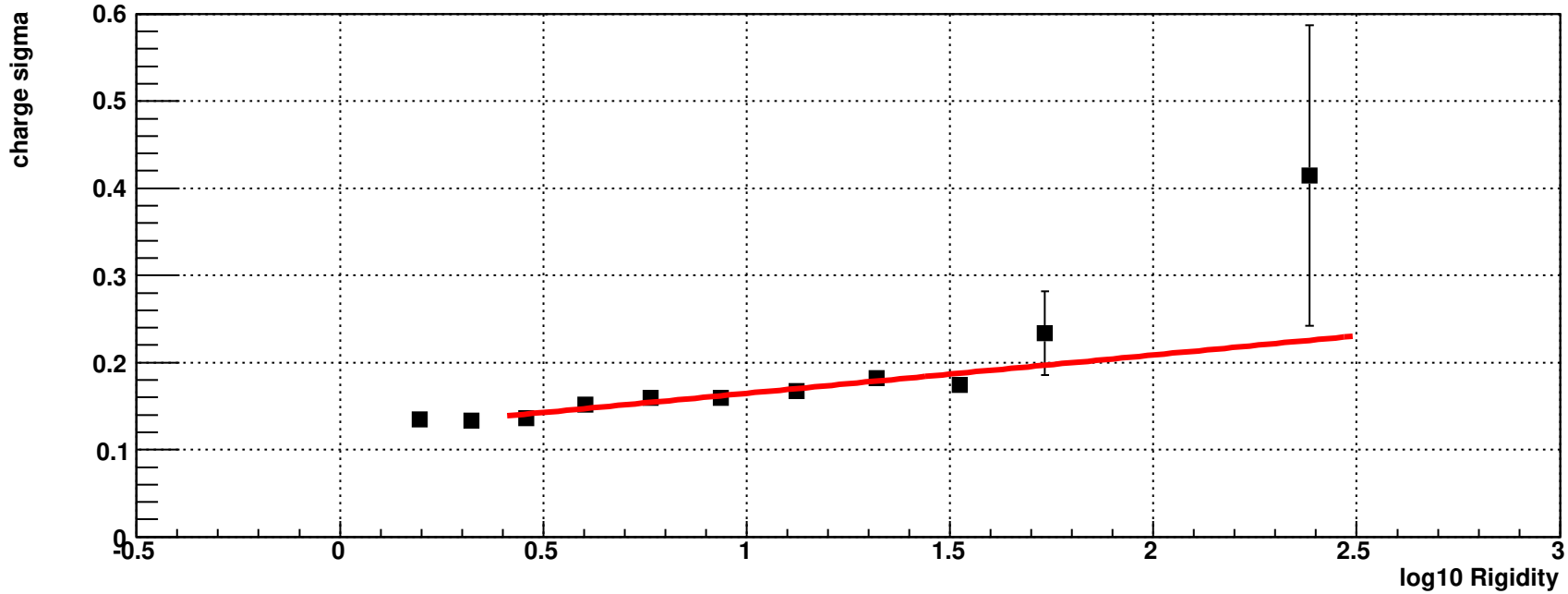

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_10
Entries 149
Mean 3.057
χ² / ndf 36.31 / 30
Constant 5.41 ± 0.97
Mean 2.95 ± 0.03
Sigma 0.2337 ± 0.0481
charge

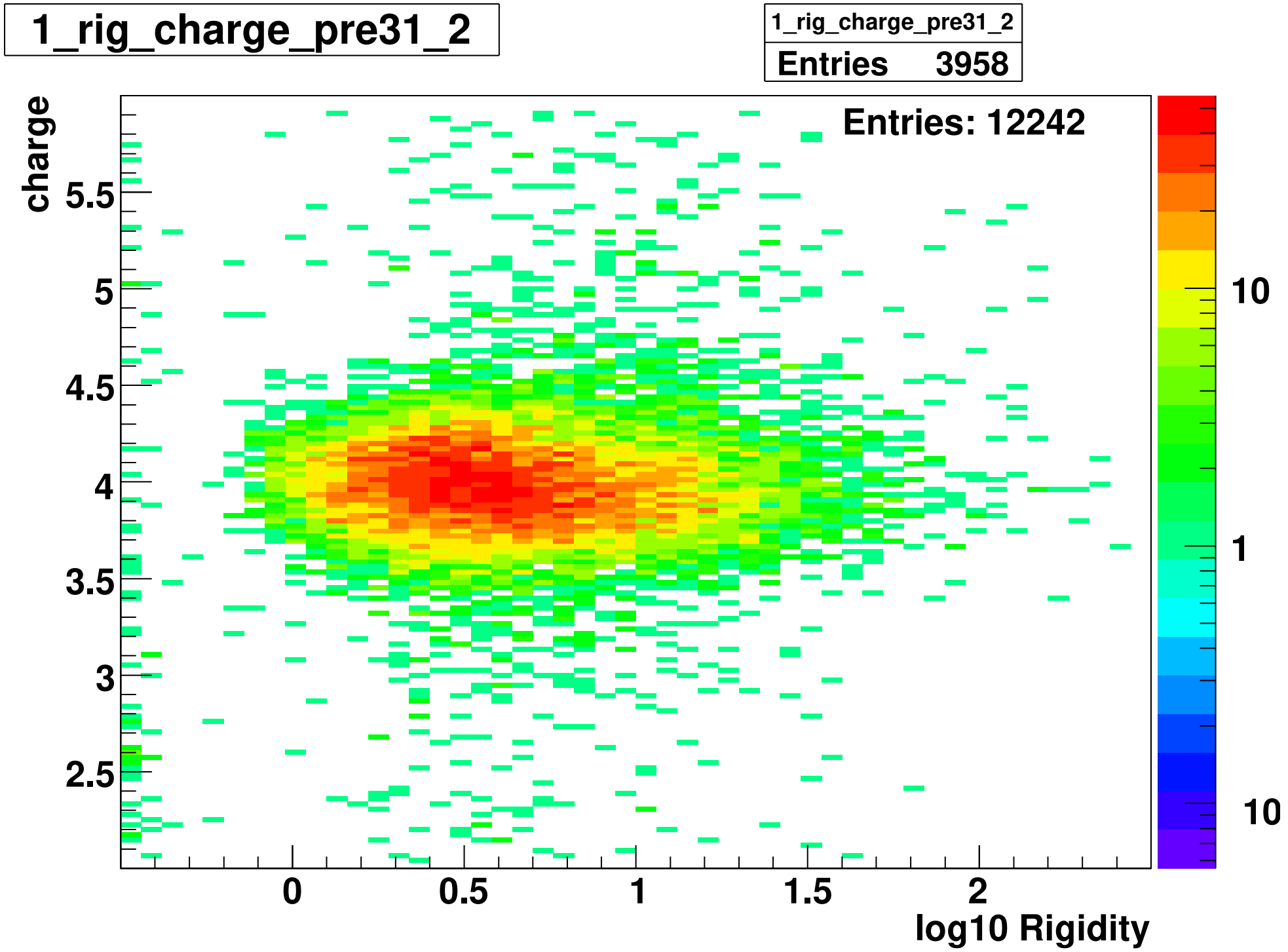

1_rig_charge_pre31_1
1_rig_charge_pre31_1_py_11
Entries 94
Mean 3.107
χ² / ndf 31.25 / 28
Constant 2.149 ± 0.426
Mean 3.077 ± 0.098
Sigma 0.4149 ± 0.1725
charge

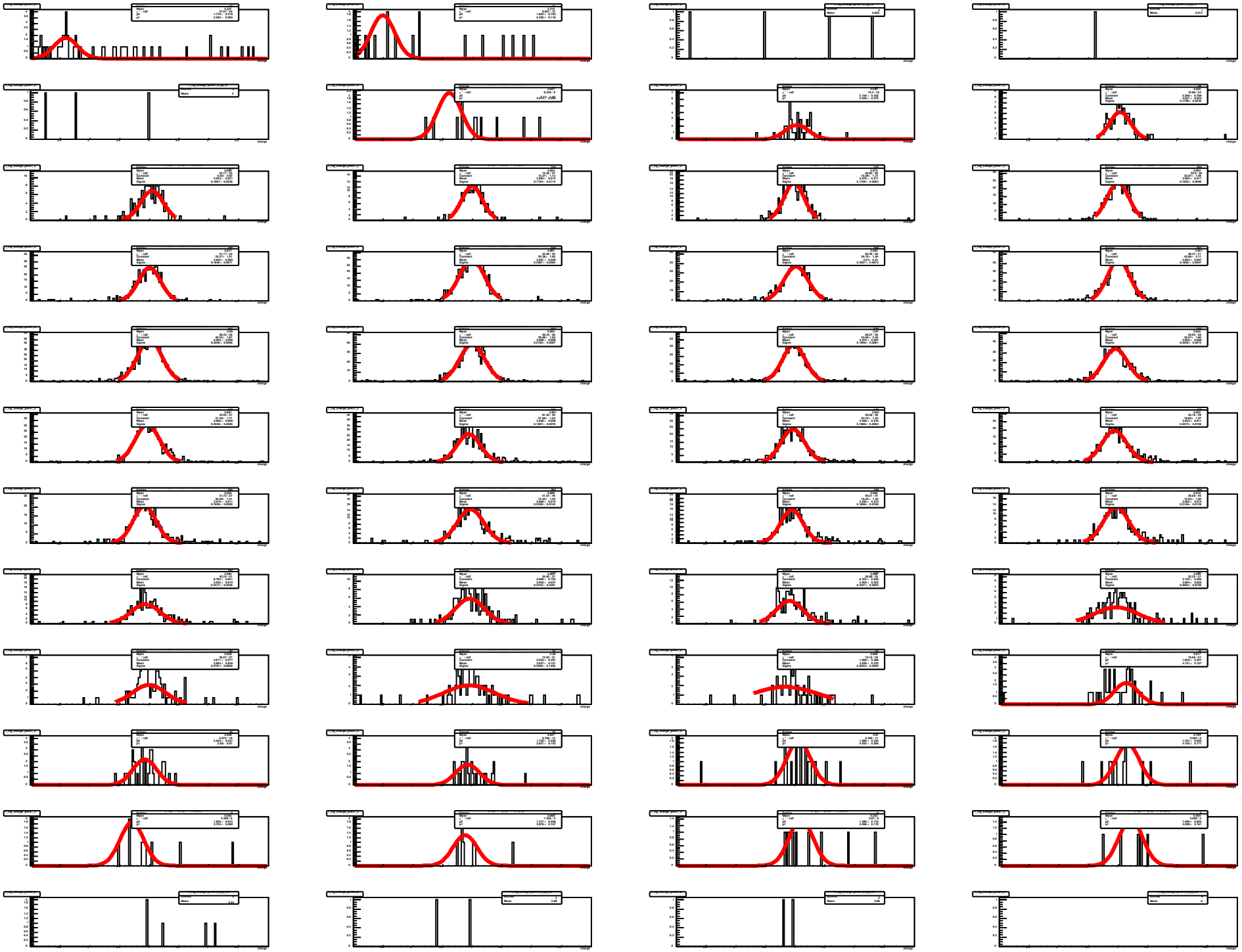
1_rig_charge_pre31_1 Lithium



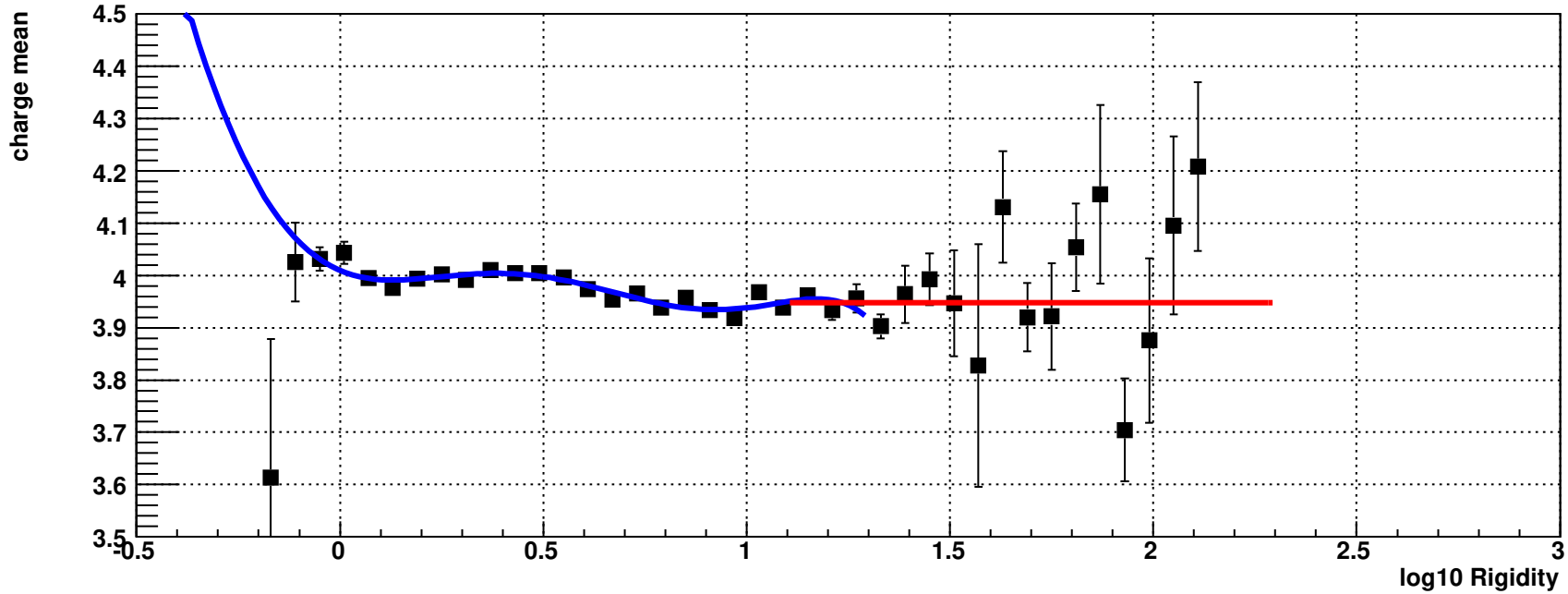
1_rig_charge_pre31_1 Lithium



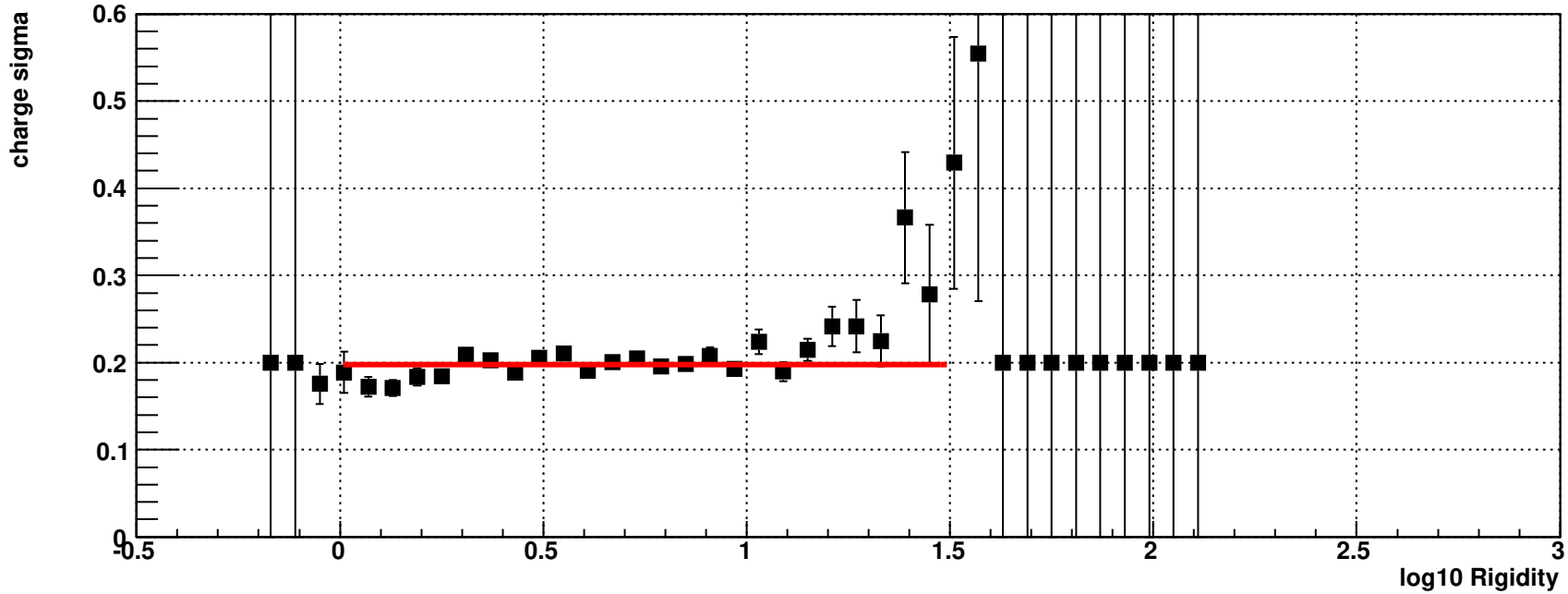

1_rig_charge_pre31_2
1_rig_charge_pre31_2
Entries 3958
Entries: 12242
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

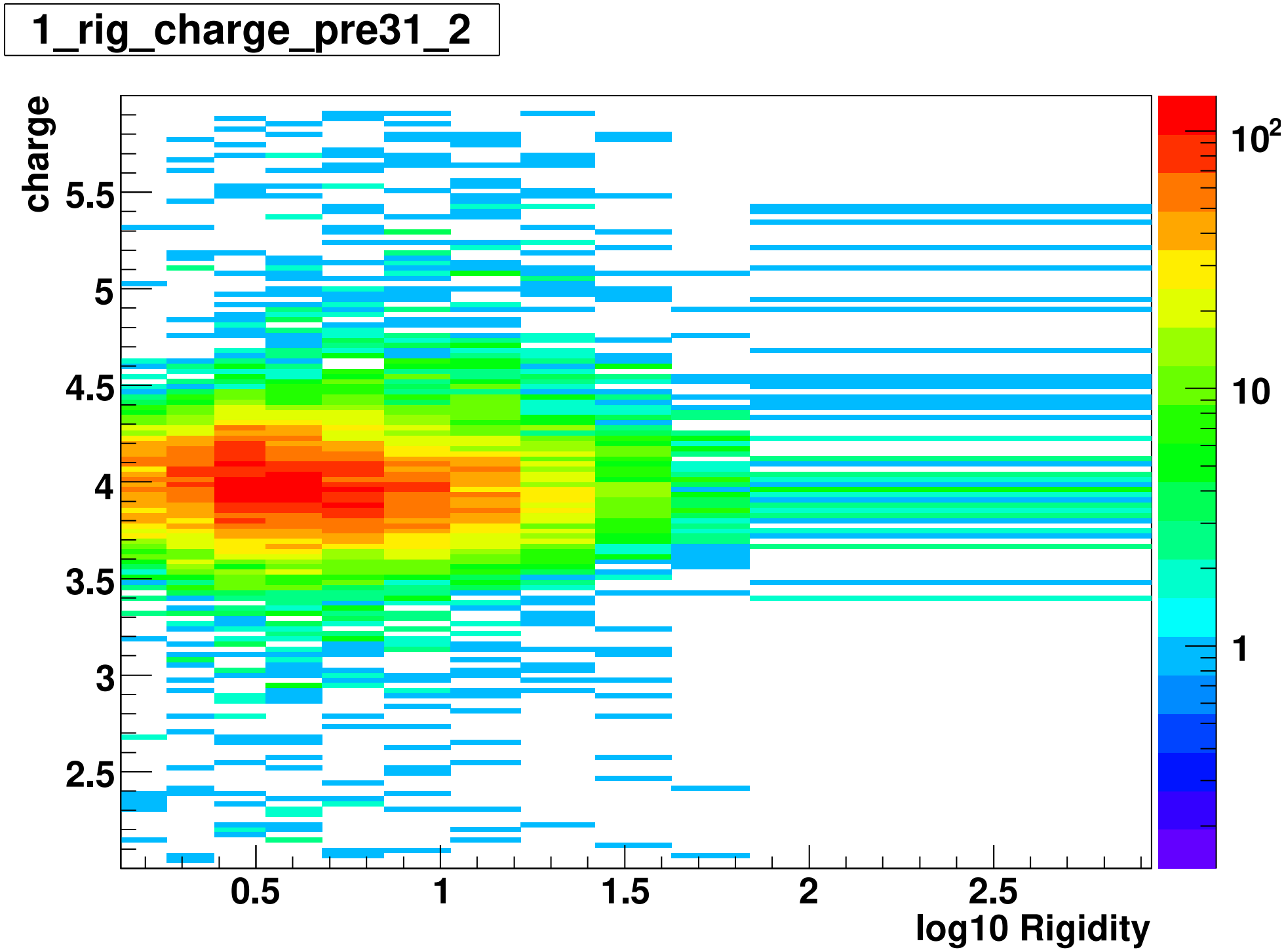


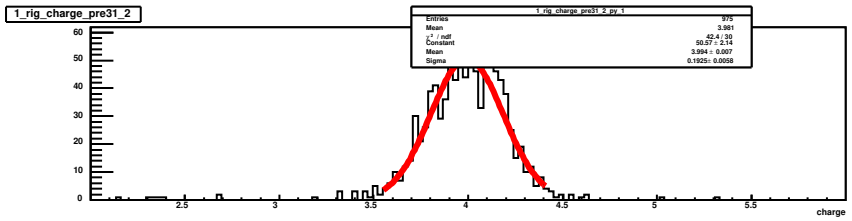
1_rig_charge_pre31_2 Beryllium

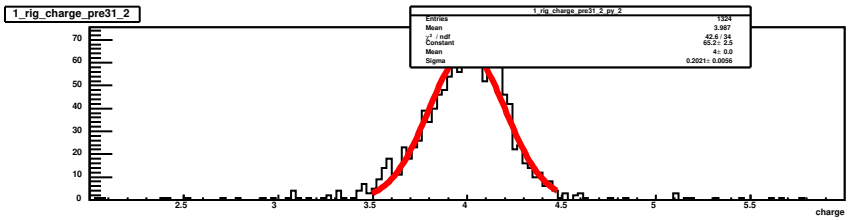


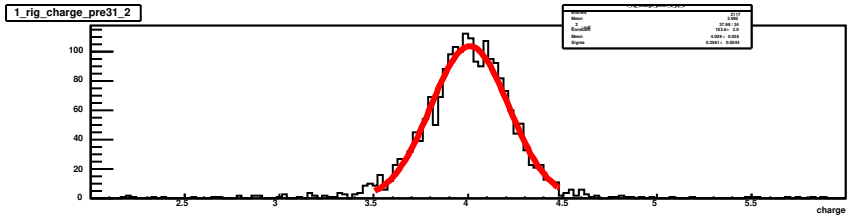
1_rig_charge_pre31_2 Beryllium

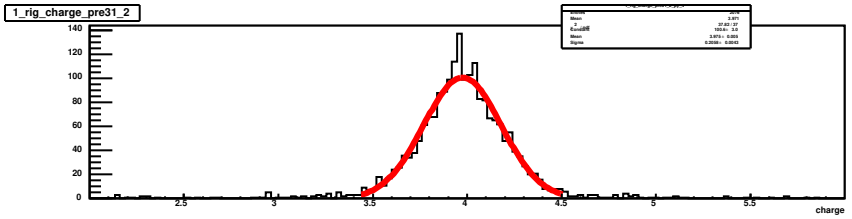


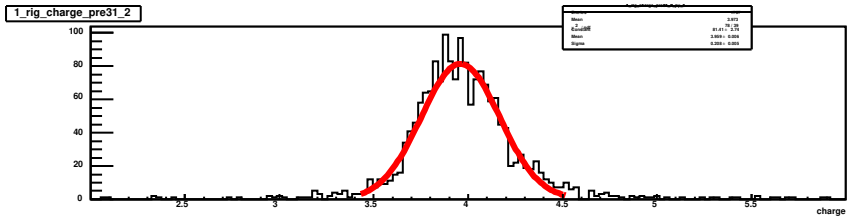

1_rig_charge_pre31_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

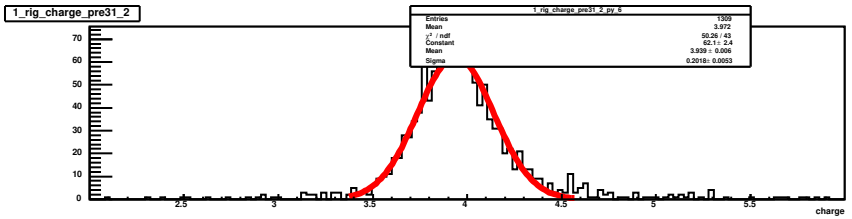

1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_1
Entries 975
Mean 3.981
χ² / ndf 42.4 / 30
Constant 50.57 ± 2.14
Mean 3.994 ± 0.007
Sigma 0.1925± 0.0058
charge

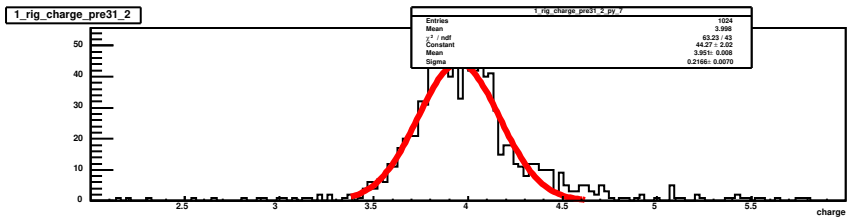

1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_2
Entries 1024
Mean 3.987
χ² / ndf 42.6 / 34
Constant 65.2 ± 2.5
Mean 4± 0.0
Sigma 0.2021± 0.0056
charge

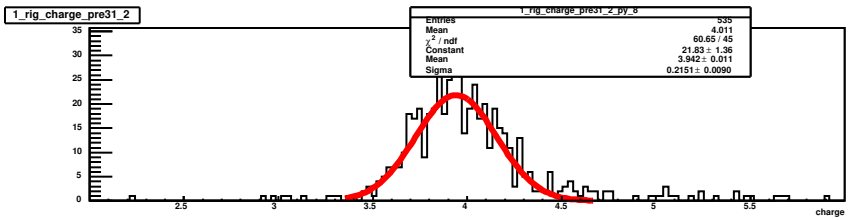

1_rig_charge_pre31_2
charge

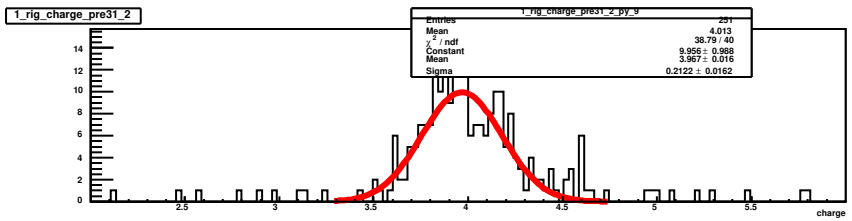

1_rig_charge_pre31_2
charge

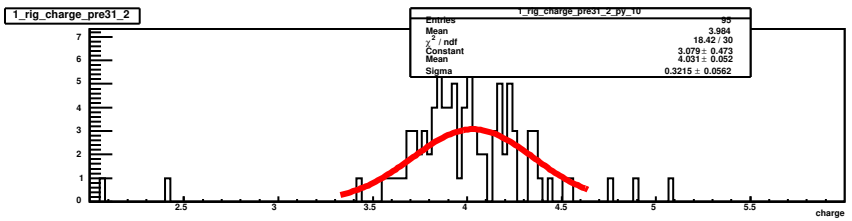

1_rig_charge_pre31_2
charge

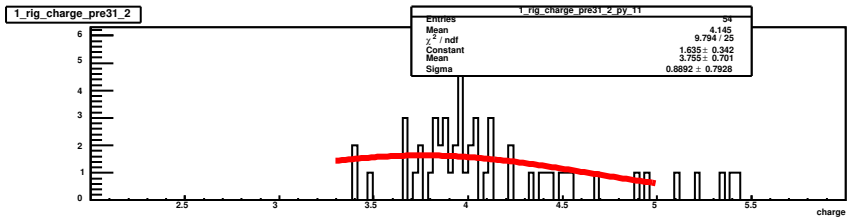

1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_6
Entries 1309
Mean 3.972
χ² / ndf 50.26 / 43
Constant 92.1 ± 2.4
Mean 3.939 ± 0.006
Sigma 0.2018± 0.0053
charge


1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_7
Entries 1024
Mean 3.998
χ² / ndf 63.23 / 43
Constant 44.27 ± 2.02
Mean 3.951± 0.008
Sigma 0.2166± 0.0070
charge

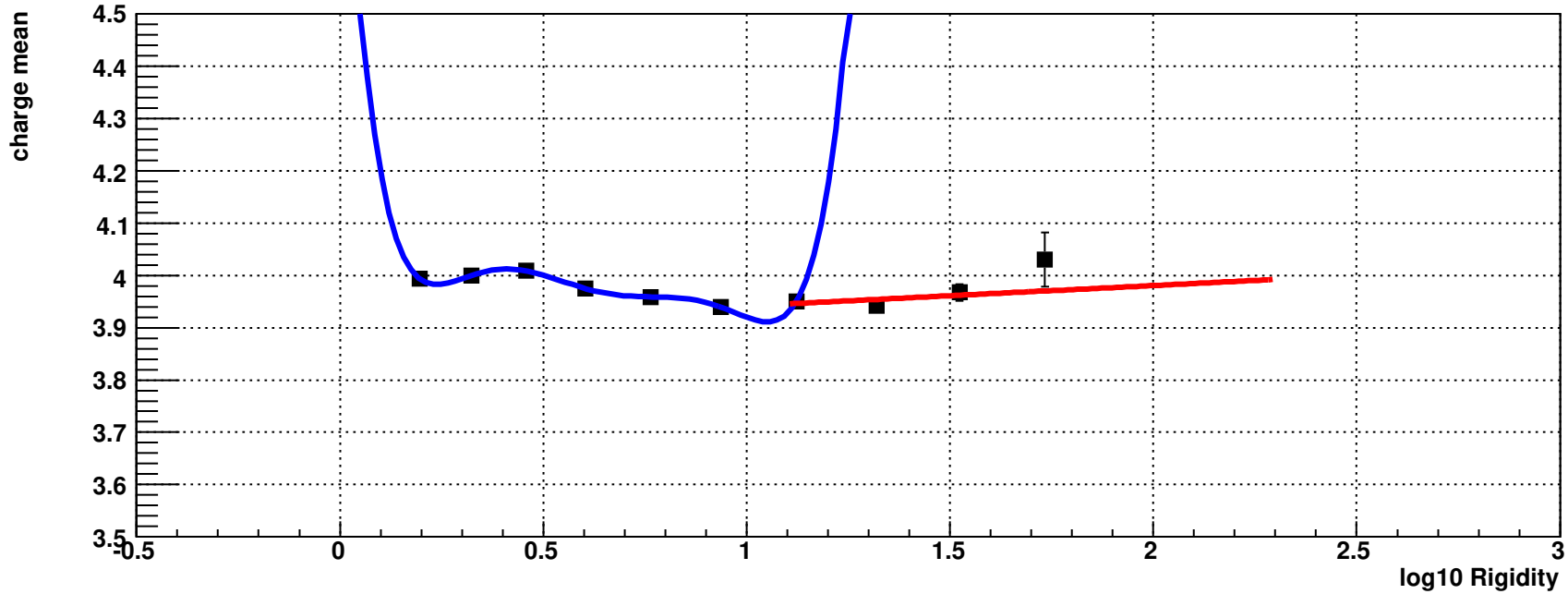

1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_8
Entries 535
Mean 4.011
χ² / ndf 60.65 / 45
Constant 21.83 ± 1.36
Mean 3.942± 0.011
Sigma 0.2151± 0.0090
charge


1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_9
Entries 291
Mean 4.013
χ² / ndf 38.79 / 40
Constant 9.956± 0.988
Mean 3.967± 0.016
Sigma 0.2122 ± 0.0162
charge

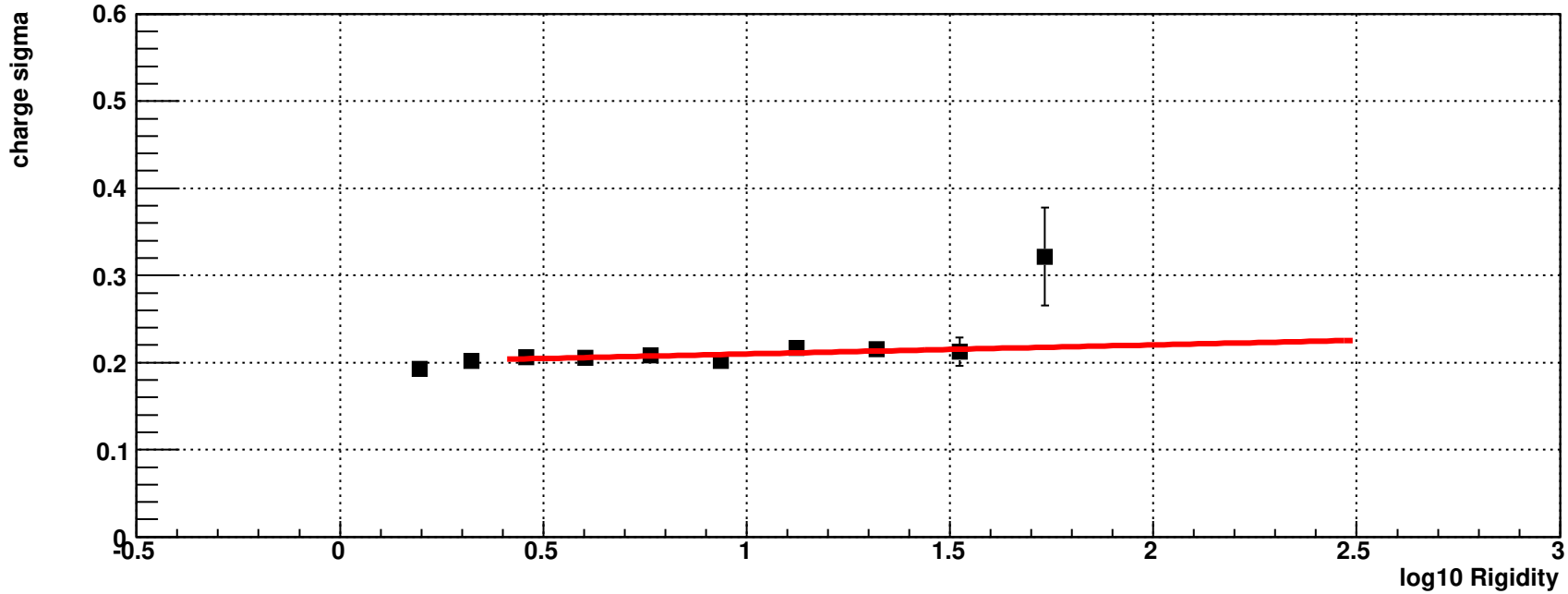

1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_10
Entries 95
Mean 3.984
χ² / ndf 18.42 / 30
Constant 3.079± 0.473
Mean 4.031± 0.052
Sigma 0.3215 ± 0.0562
charge

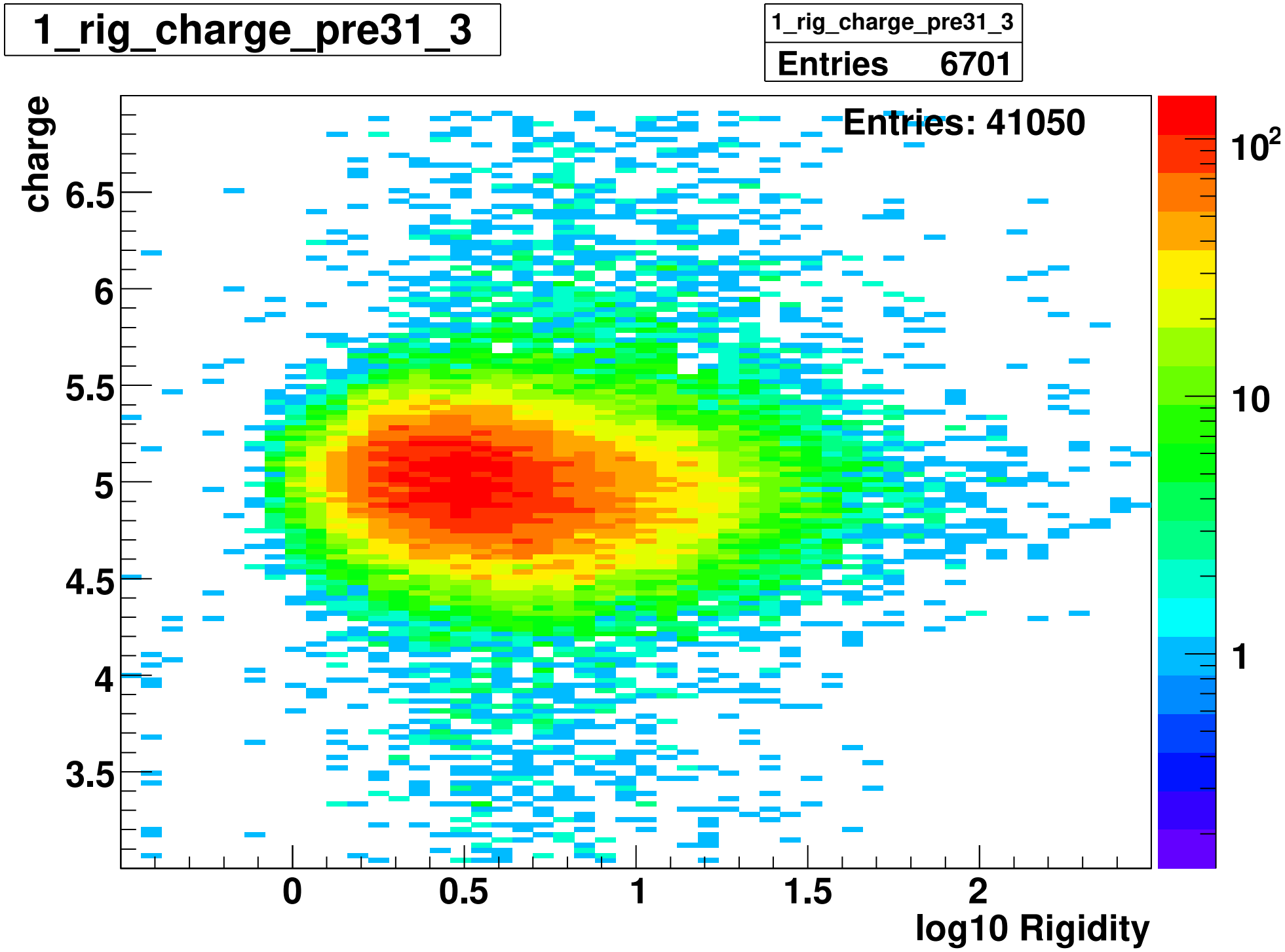

1_rig_charge_pre31_2
1_rig_charge_pre31_2_py_11
Entries 54
Mean 4.145
χ² / ndf 9.794 / 25
Constant 1.635± 0.342
Mean 3.755± 0.701
Sigma 0.8892 ± 0.7928
charge

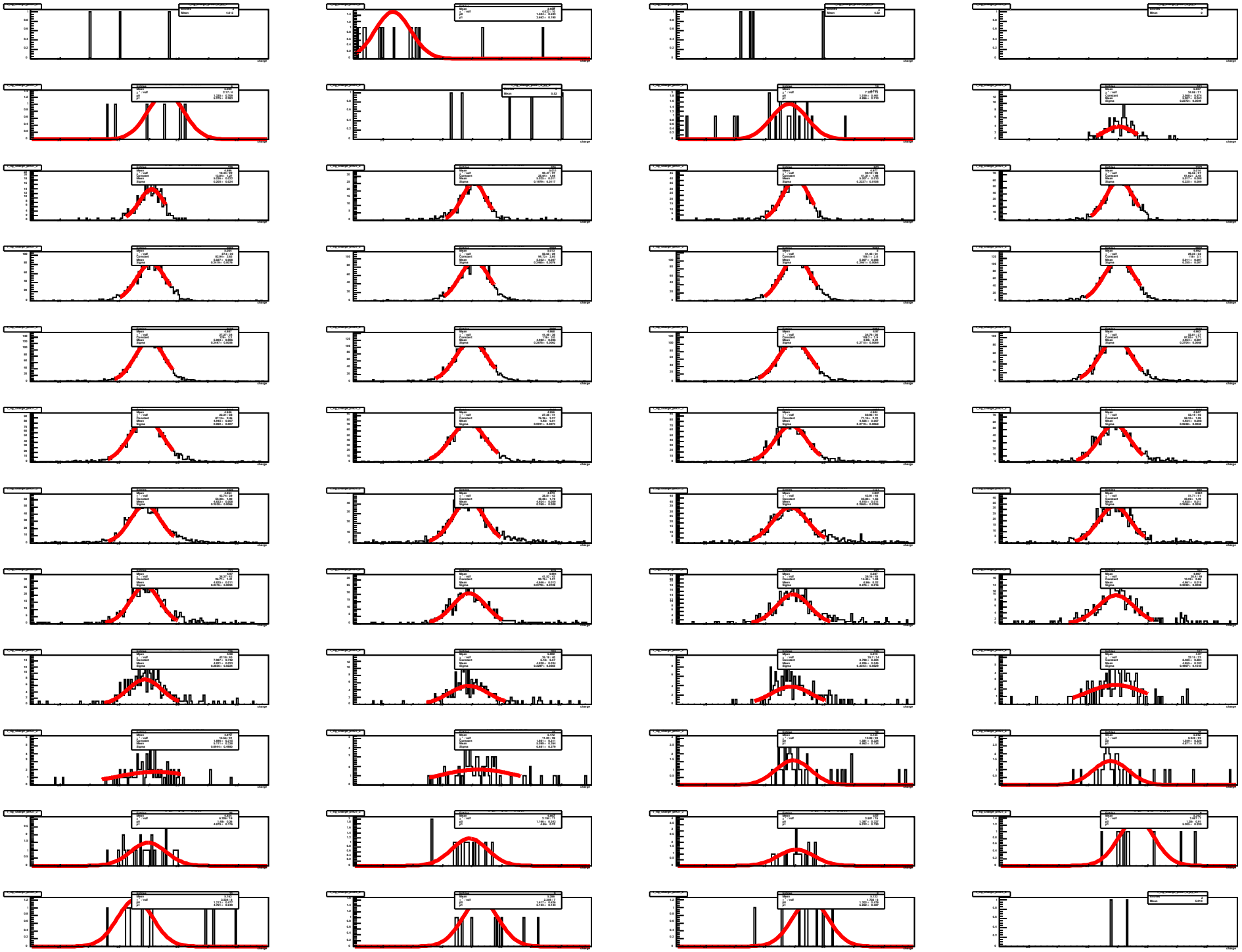
1_rig_charge_pre31_2 Beryllium



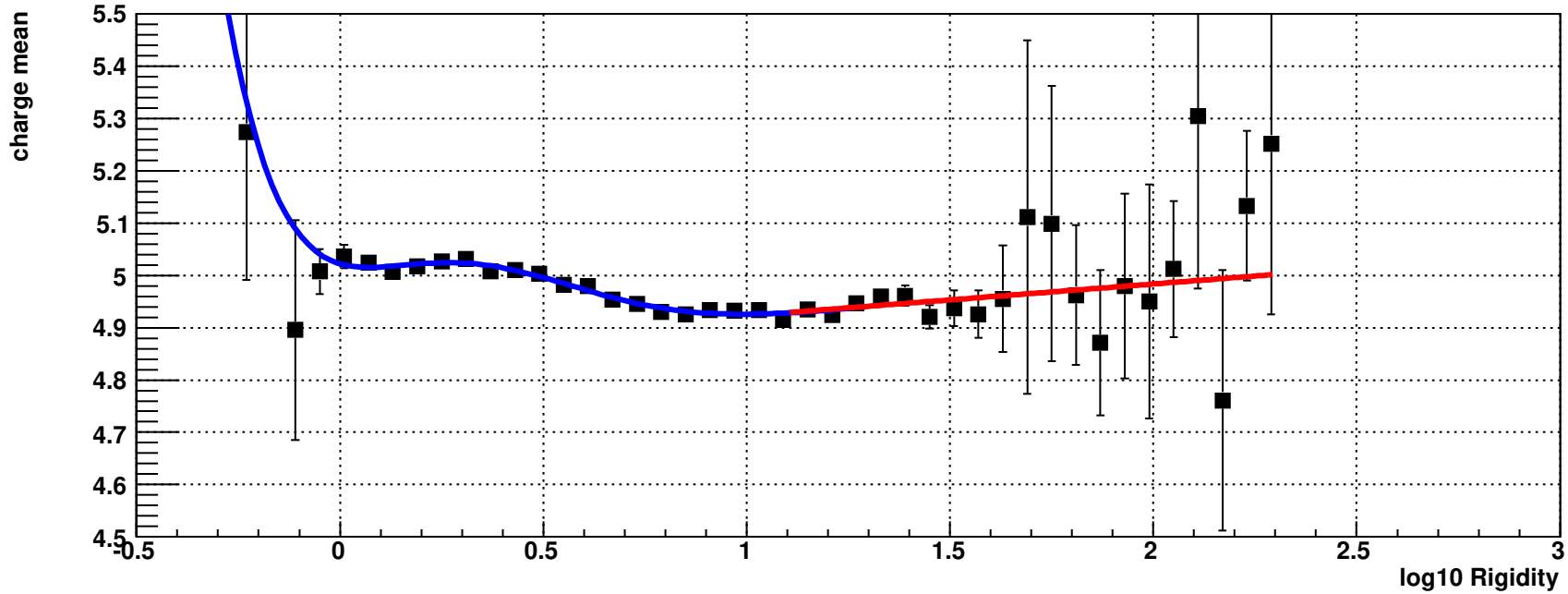
1_rig_charge_pre31_2 Beryllium



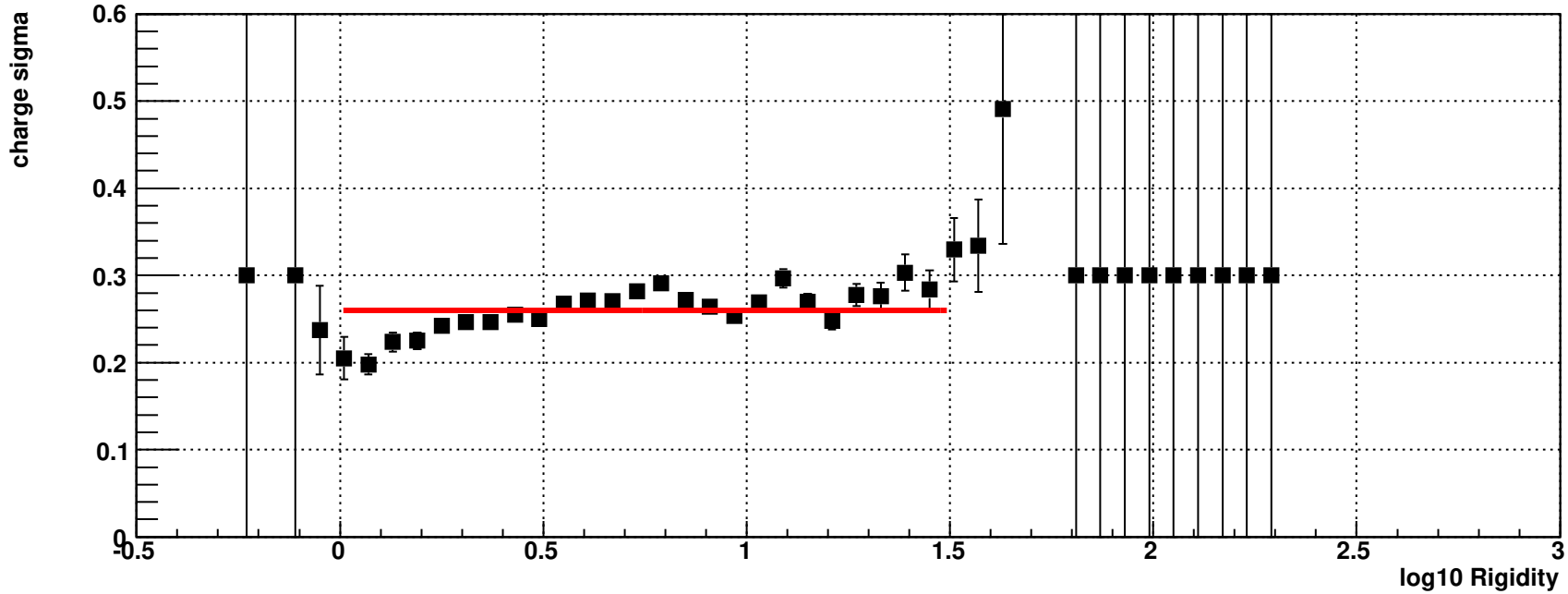

1_rig_charge_pre31_3
1_rig_charge_pre31_3
Entries 6701
Entries: 41050
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



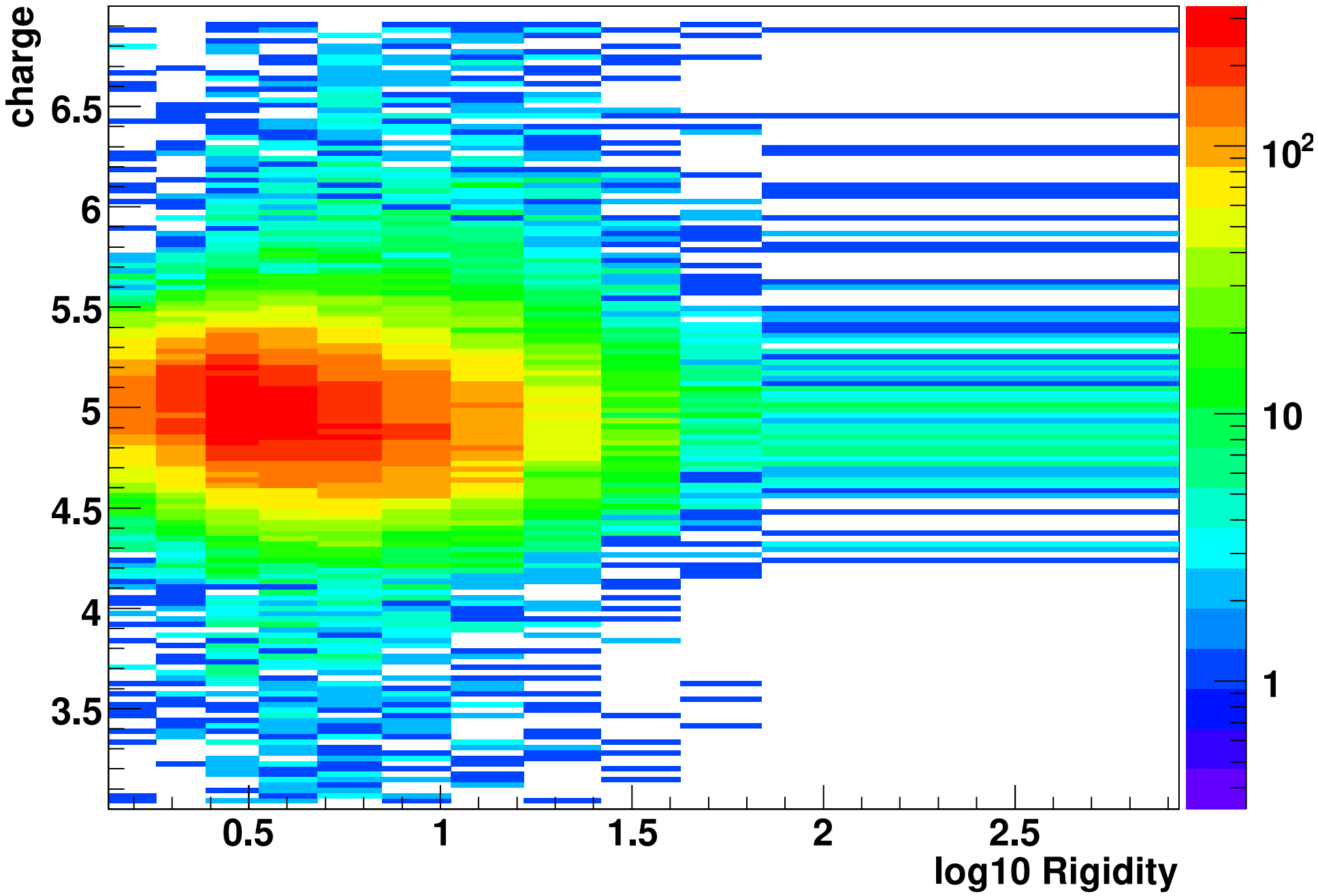
1_rig_charge_pre31_3 Boron

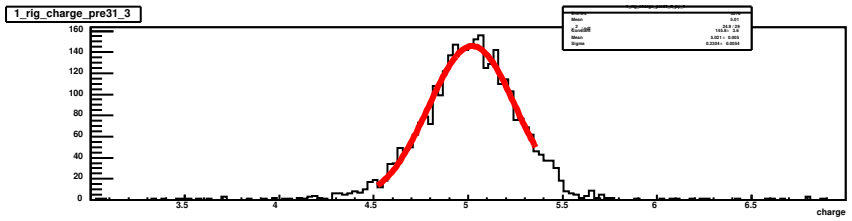


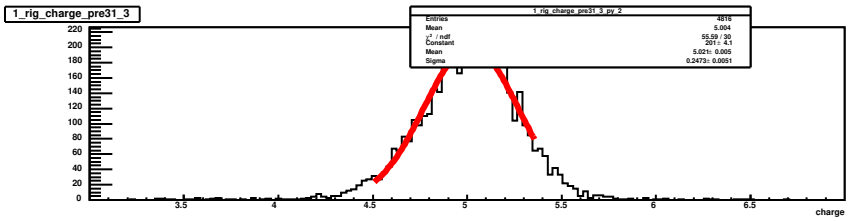
1_rig_charge_pre31_3 Boron

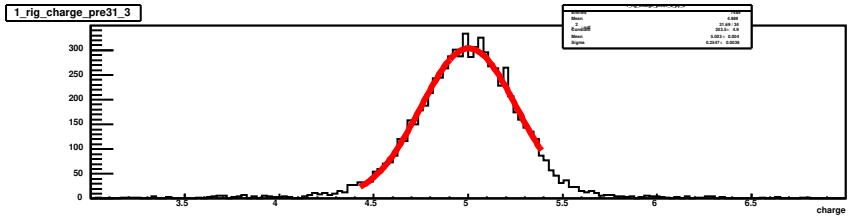


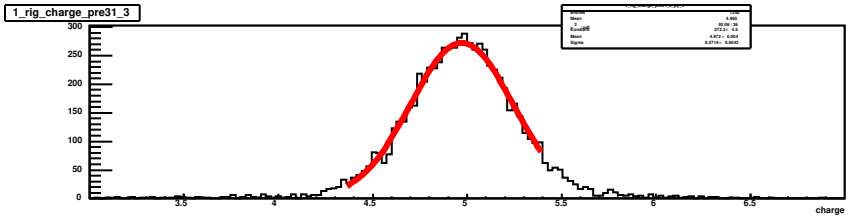
1_rig_charge_pre31_3

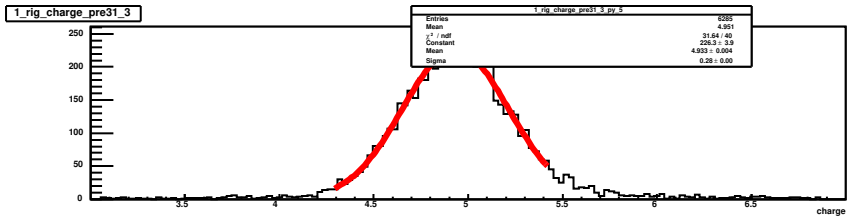


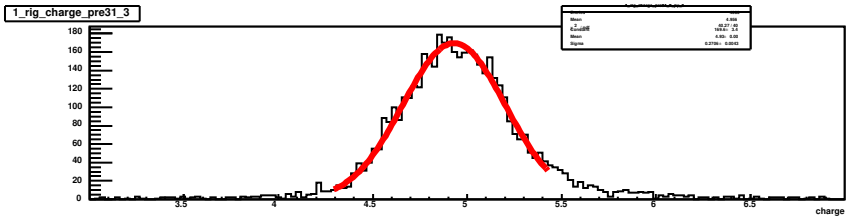

1_rig_charge_pre31_3
charge

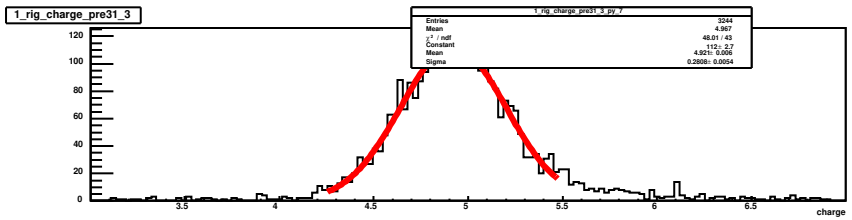

1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_2
Entries 4916
Mean 5.004
χ² / ndf 55.59 / 30
Constant 201 ± 4.1
Mean 5.021 ± 0.005
Sigma 0.2473 ± 0.0051
charge

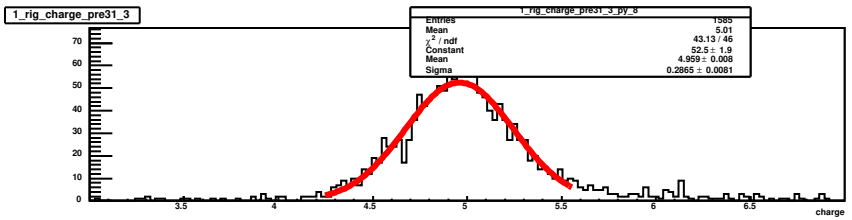

1_rig_charge_pre31_3
charge

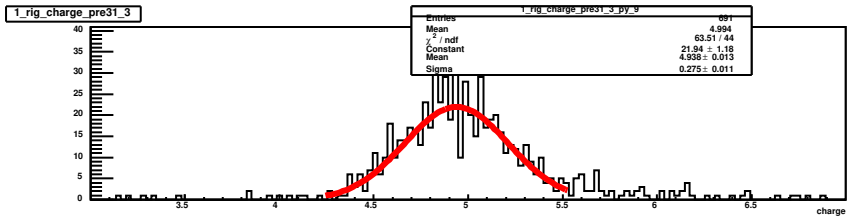

1_rig_charge_pre31_3
charge

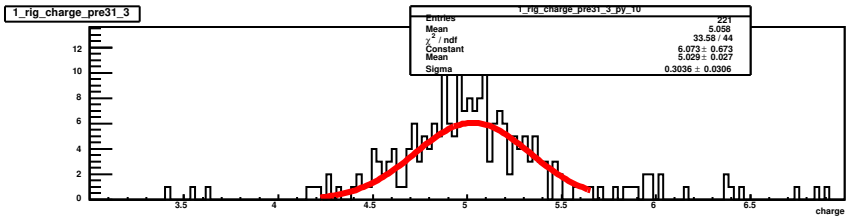

1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_5
Entries 6285
Mean 4.951
χ² / ndf 31.64 / 40
Constant 226.3 ± 3.9
Mean 4.933 ± 0.004
Sigma 0.28 ± 0.00
charge

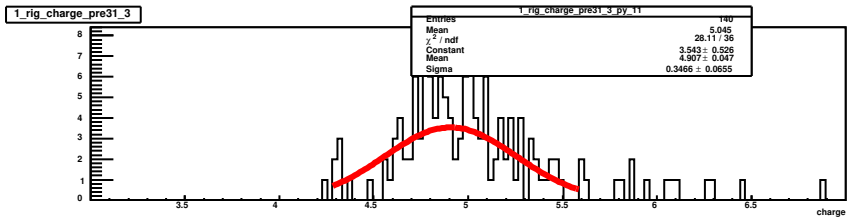

1_rig_charge_pre31_3
charge


1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_7
Entries 3244
Mean 4.967
χ² / ndf 48.01 / 43
Constant 112 ± 2.7
Mean 4.921 ± 0.006
Sigma 0.2808 ± 0.0054
charge

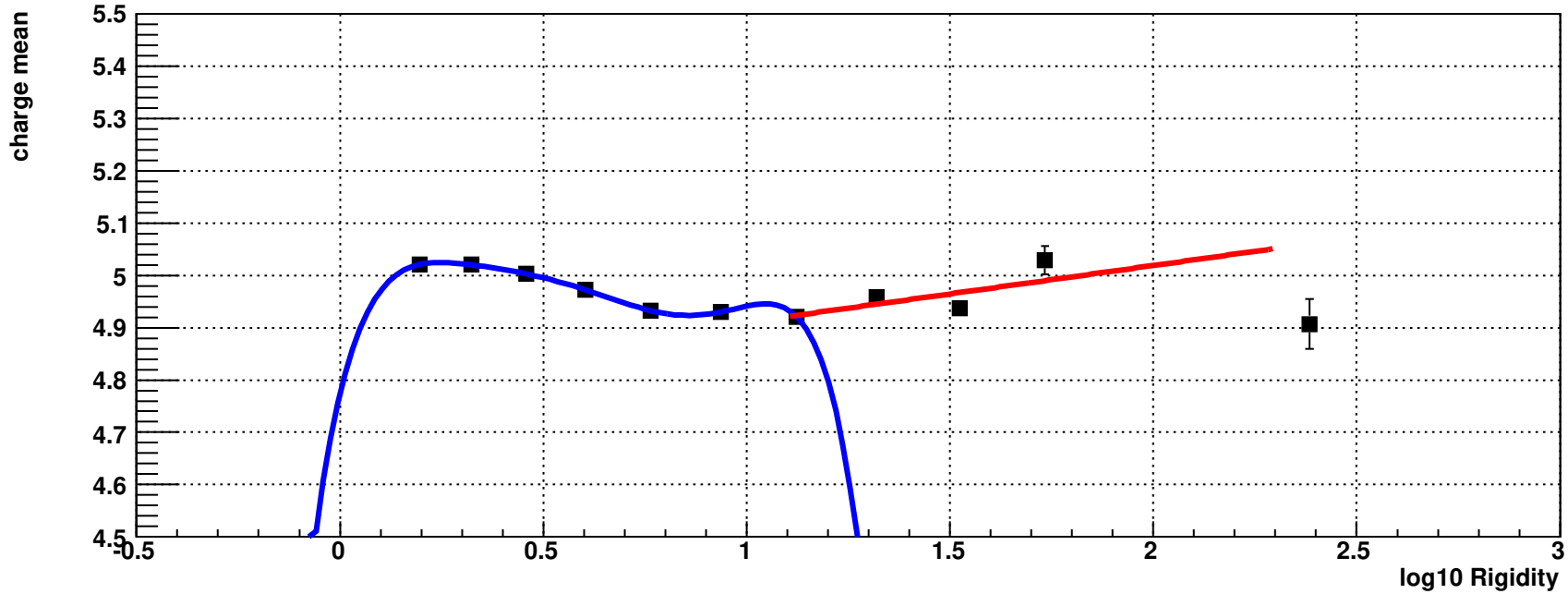

1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_8
Entries 1585
Mean 5.01
χ² / ndf 43.13 / 46
Constant 52.5 ± 1.9
Mean 4.959 ± 0.008
Sigma 0.2865 ± 0.0081
charge


1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_9
Entries 891
Mean 4.994
χ² / ndf 63.51 / 44
Constant 21.94 ± 1.18
Mean 4.938 ± 0.013
Sigma 0.275 ± 0.011
charge

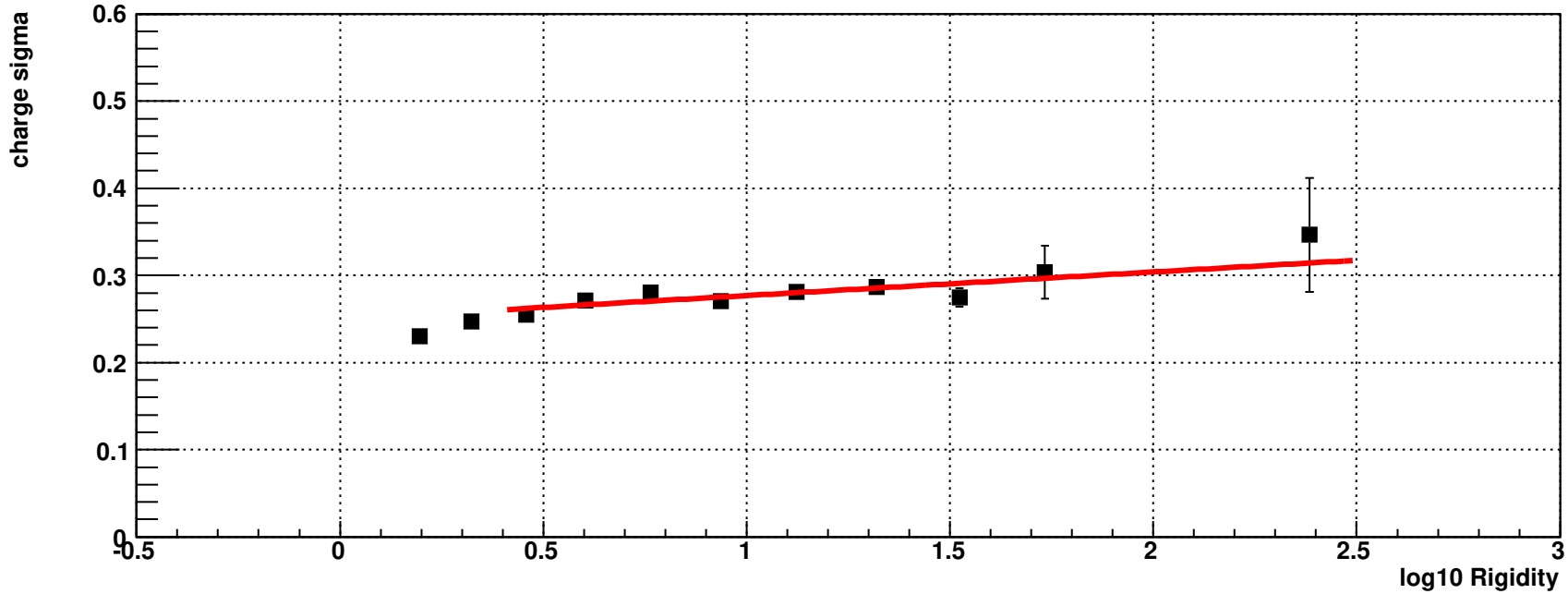

1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_10
Entries 221
Mean 5.059
χ² / ndf 33.58 / 44
Constant 6.073 ± 0.673
Mean 5.029 ± 0.027
Sigma 0.3036 ± 0.0306
charge

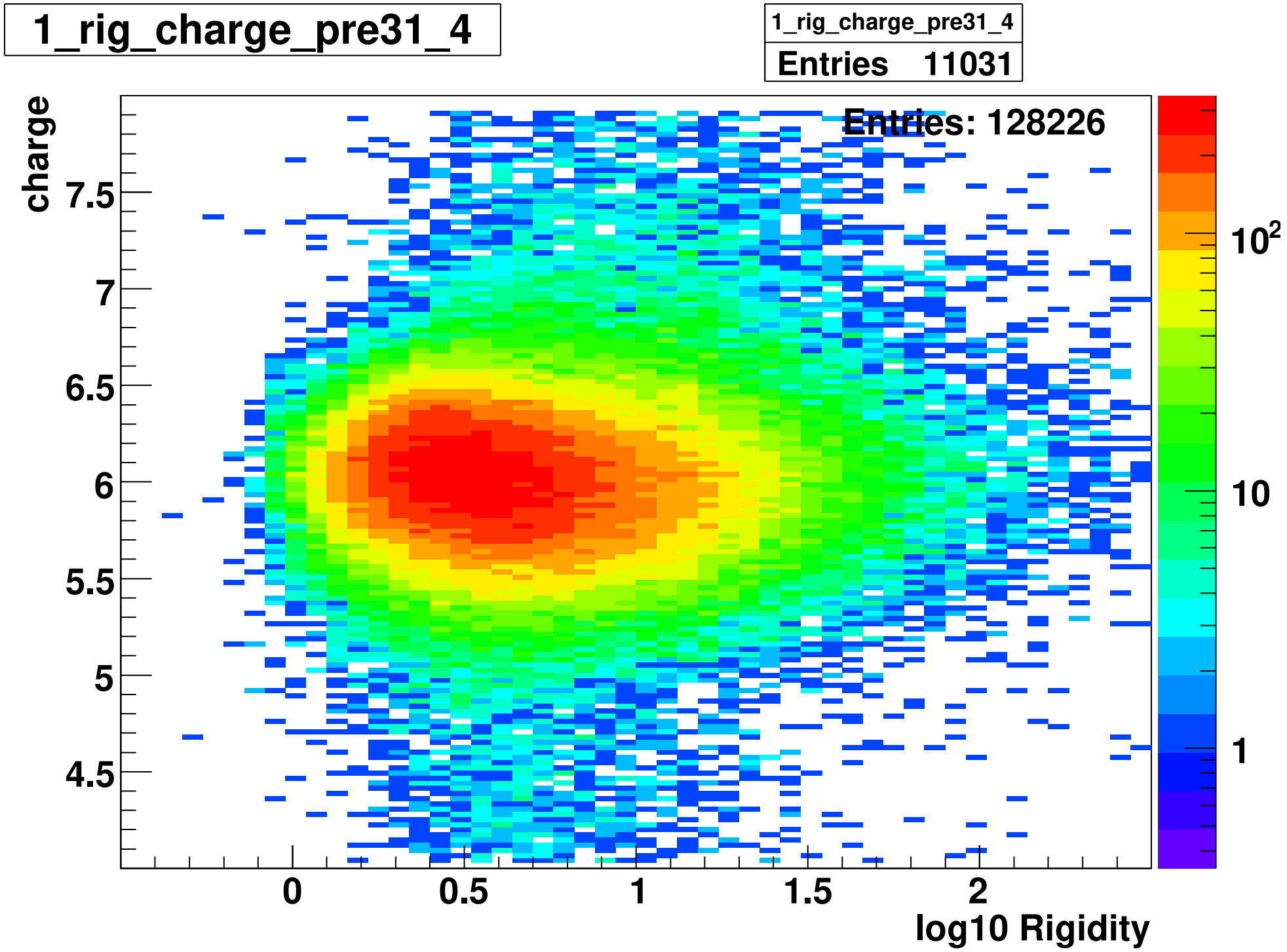

1_rig_charge_pre31_3
1_rig_charge_pre31_3_py_11
Entries 140
Mean 5.045
χ² / ndf 28.11 / 36
Constant 3.543 ± 0.526
Mean 4.907 ± 0.047
Sigma 0.3466 ± 0.0655
charge

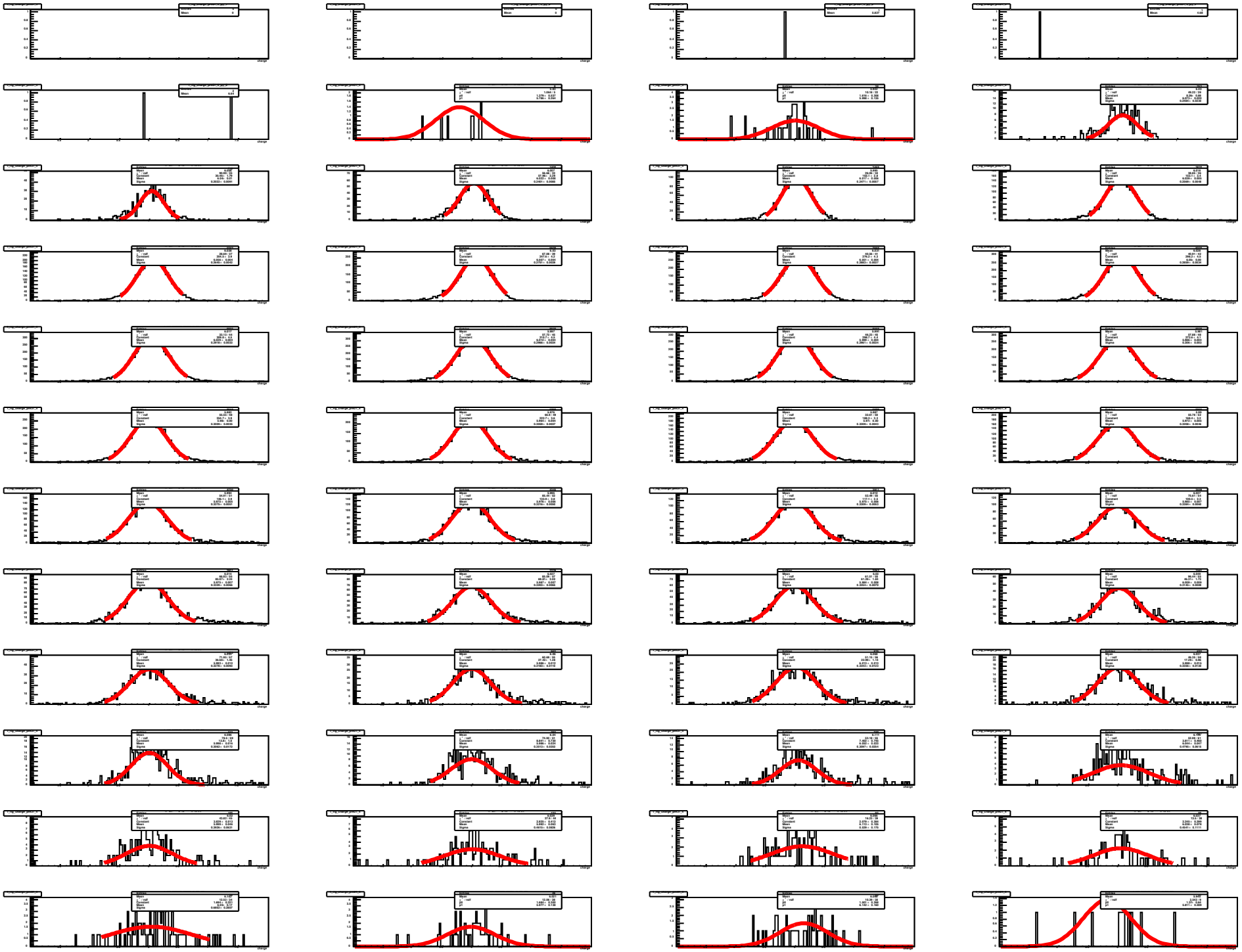
1_rig_charge_pre31_3 Boron



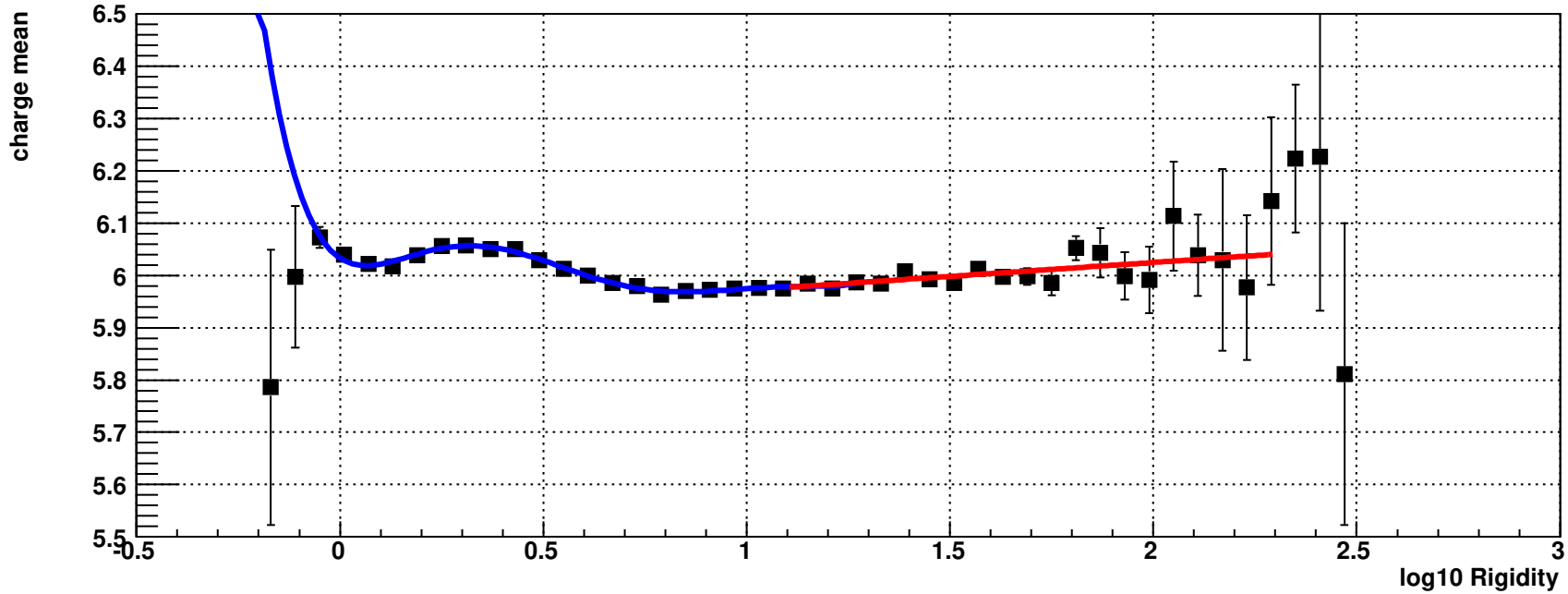
1_rig_charge_pre31_3 Boron



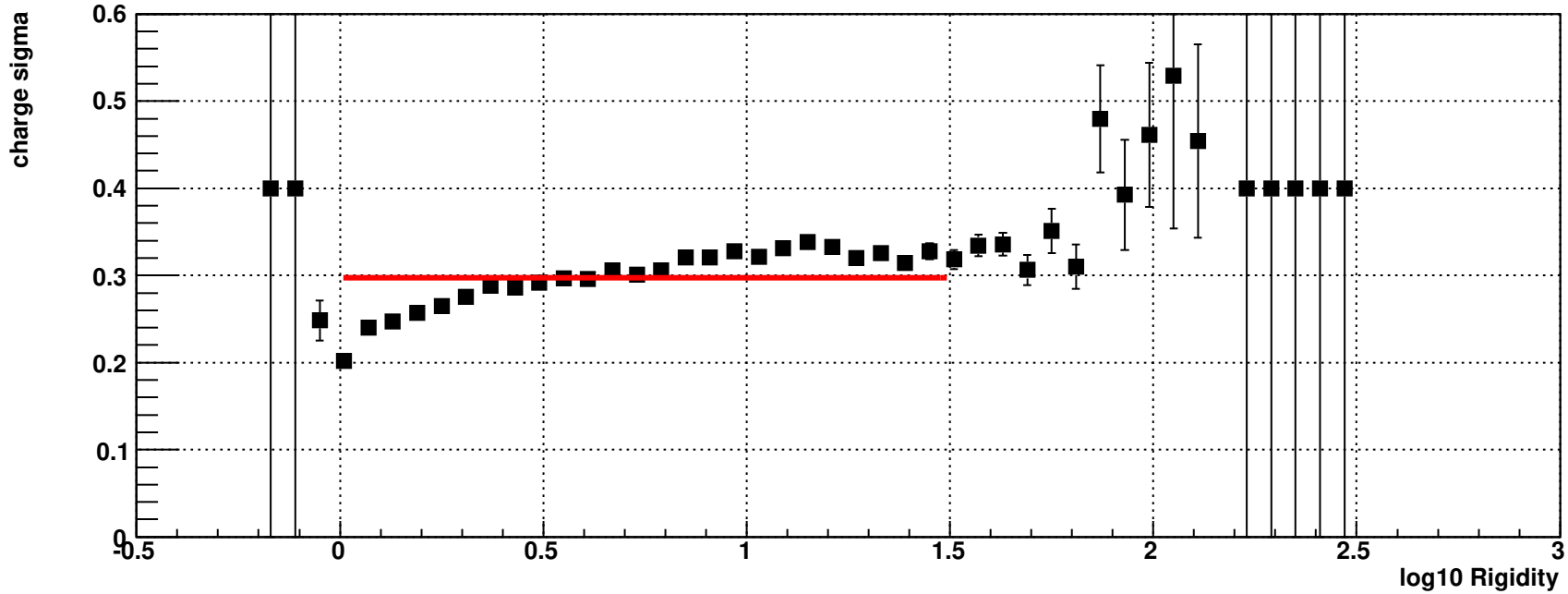

1_rig_charge_pre31_4
1_rig_charge_pre31_4
Entries 11031
Entries: 128226
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



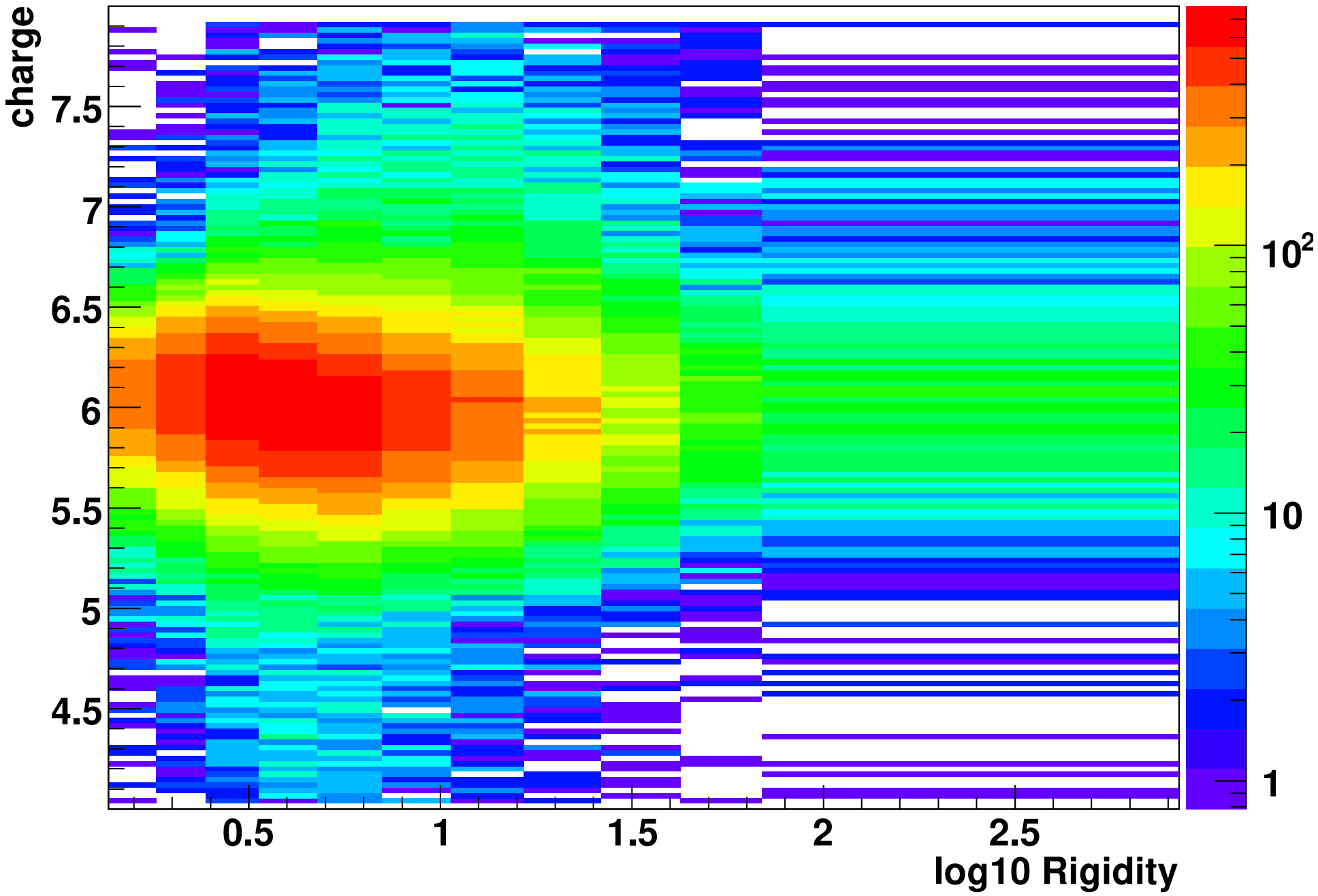
1_rig_charge_pre31_4 Carbon

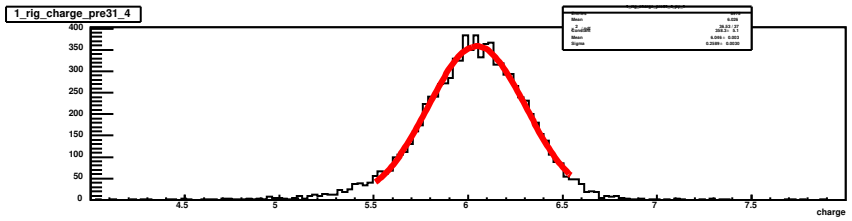


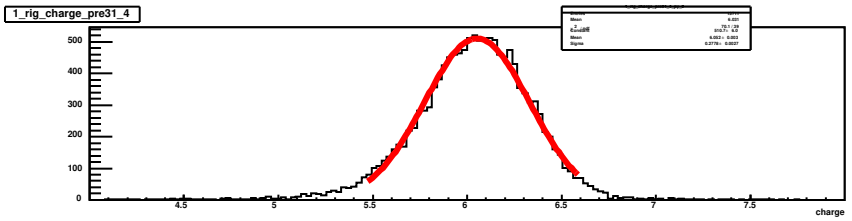
1_rig_charge_pre31_4 Carbon

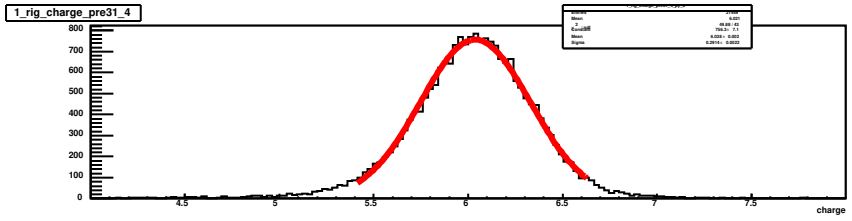


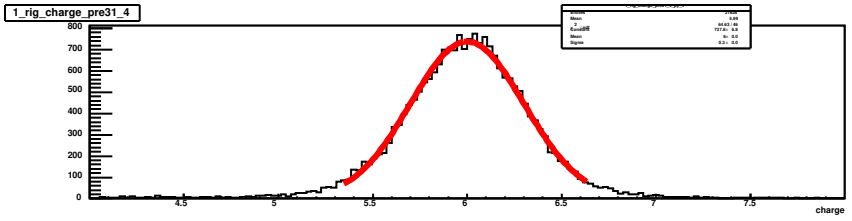
1_rig_charge_pre31_4

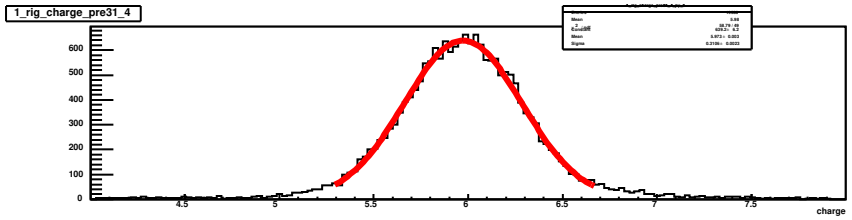


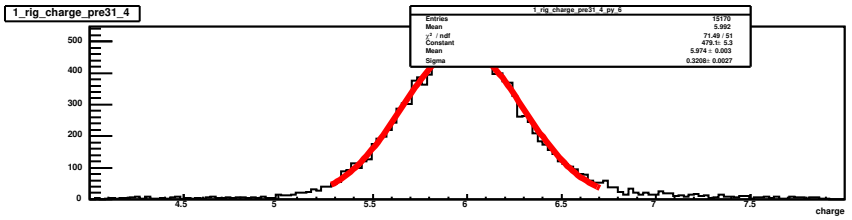

1_rig_charge_pre31_4
charge

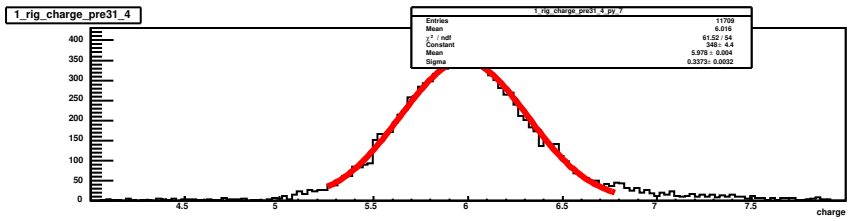

1_rig_charge_pre31_4
charge

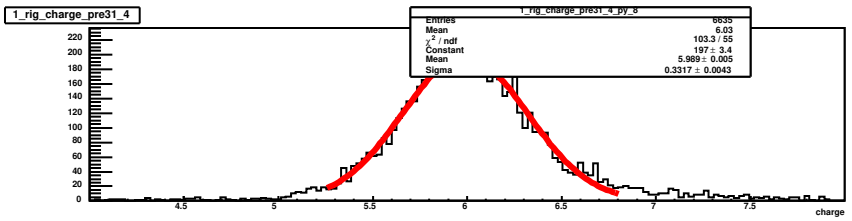

1_rig_charge_pre31_4
charge

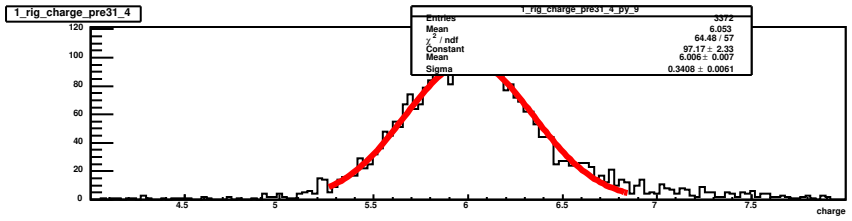

1_rig_charge_pre31_4
charge

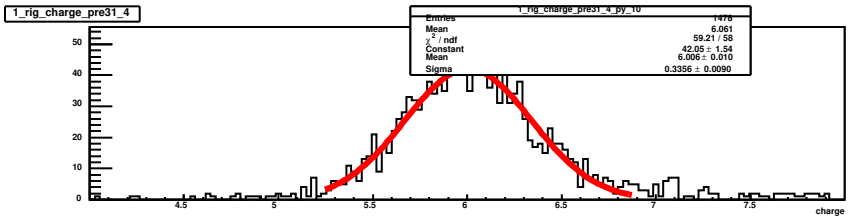

1_rig_charge_pre31_4
charge

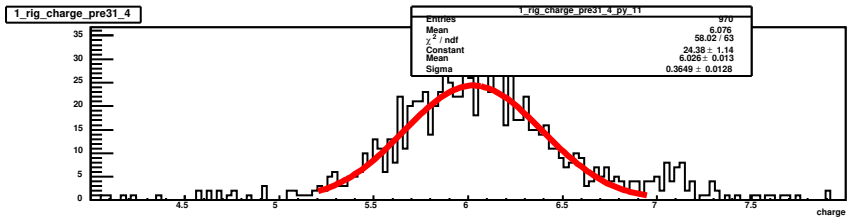

1_rig_charge_pre31_4
1_rig_charge_pre31_4_py_6
Entries 15170
Mean 5.992
χ² / ndf 71.49 / 51
Constant 479.1± 5.3
Mean 5.974 ± 0.003
Sigma 0.3206± 0.0027
charge


1_rig_charge_pre31_4
1_rig_charge_pre31_4_py_7
Entries 11709
Mean 6.016
χ² / ndf 61.52 / 54
Constant 348± 4.4
Mean 5.978 ± 0.004
Sigma 0.3373± 0.0032
charge

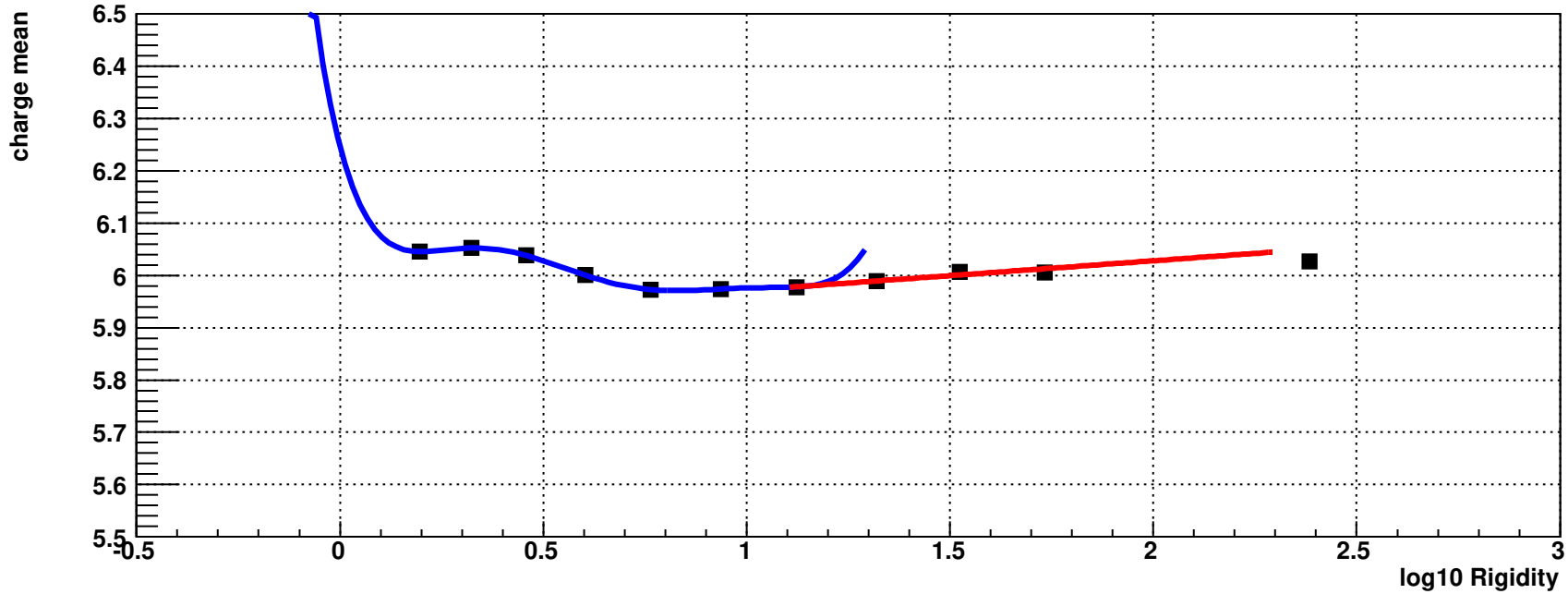

1_rig_charge_pre31_4
1_rig_charge_pre31_4_py_8
Entries 6635
Mean 6.03
χ² / ndf 103.3 / 55
Constant 197 ± 3.4
Mean 5.989 ± 0.005
Sigma 0.3317 ± 0.0043
charge


1_rig_charge_pre31_4
1_rig_charge_pre31_4_py_9
Entries 3372
Mean 6.053
χ² / ndf 64.48 / 57
Constant 97.17 ± 2.33
Mean 6.006 ± 0.007
Sigma 0.3408 ± 0.0061
charge

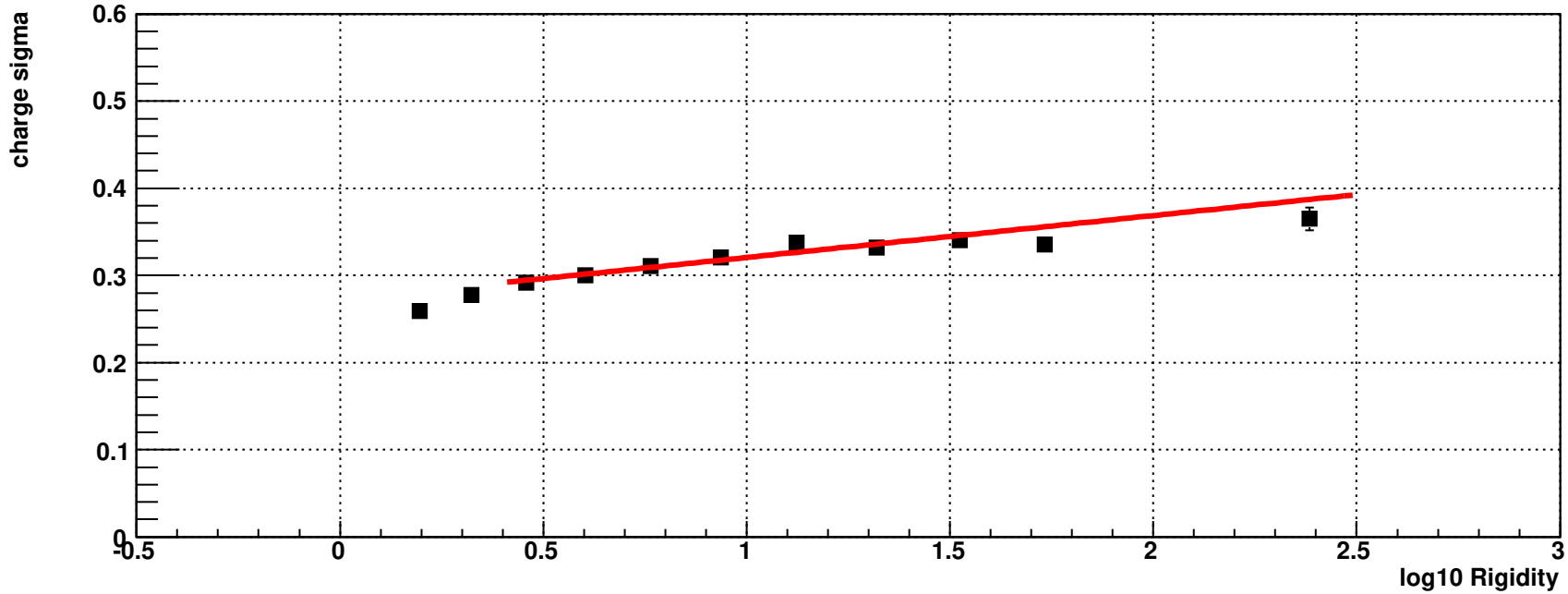

1_rig_charge_pre31_4
1_rig_charge_pre31_4_py_10
Entries 1478
Mean 6.061
χ² / ndf 59.21 / 58
Constant 42.05 ± 1.54
Mean 6.006 ± 0.010
Sigma 0.3356 ± 0.0090
charge

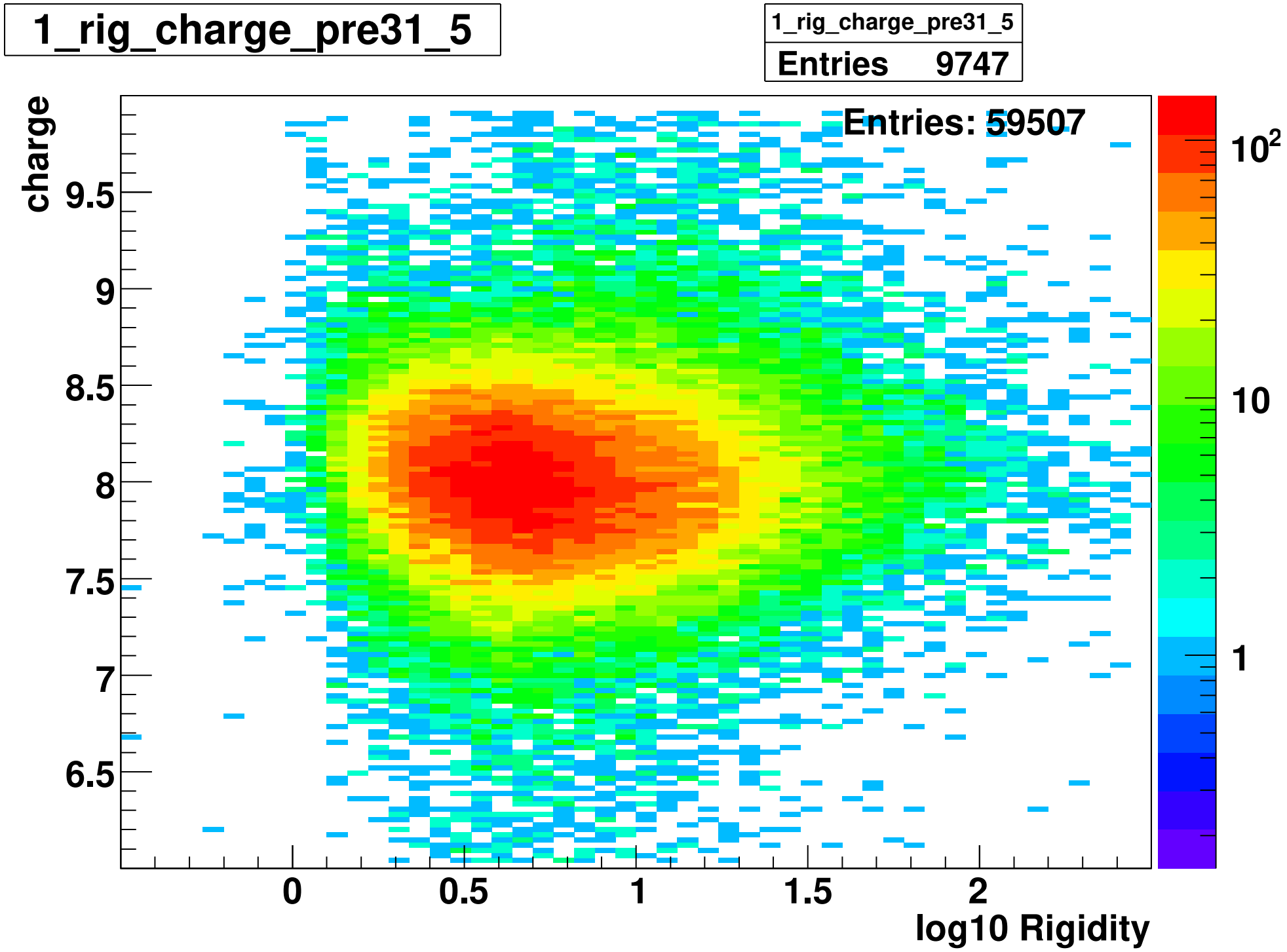

1_rig_charge_pre31_4
1_rig_charge_pre31_4_py_11
Entries 970
Mean 6.076
χ² / ndf 58.02 / 63
Constant 24.38 ± 1.14
Mean 6.026 ± 0.013
Sigma 0.3649 ± 0.0128
charge

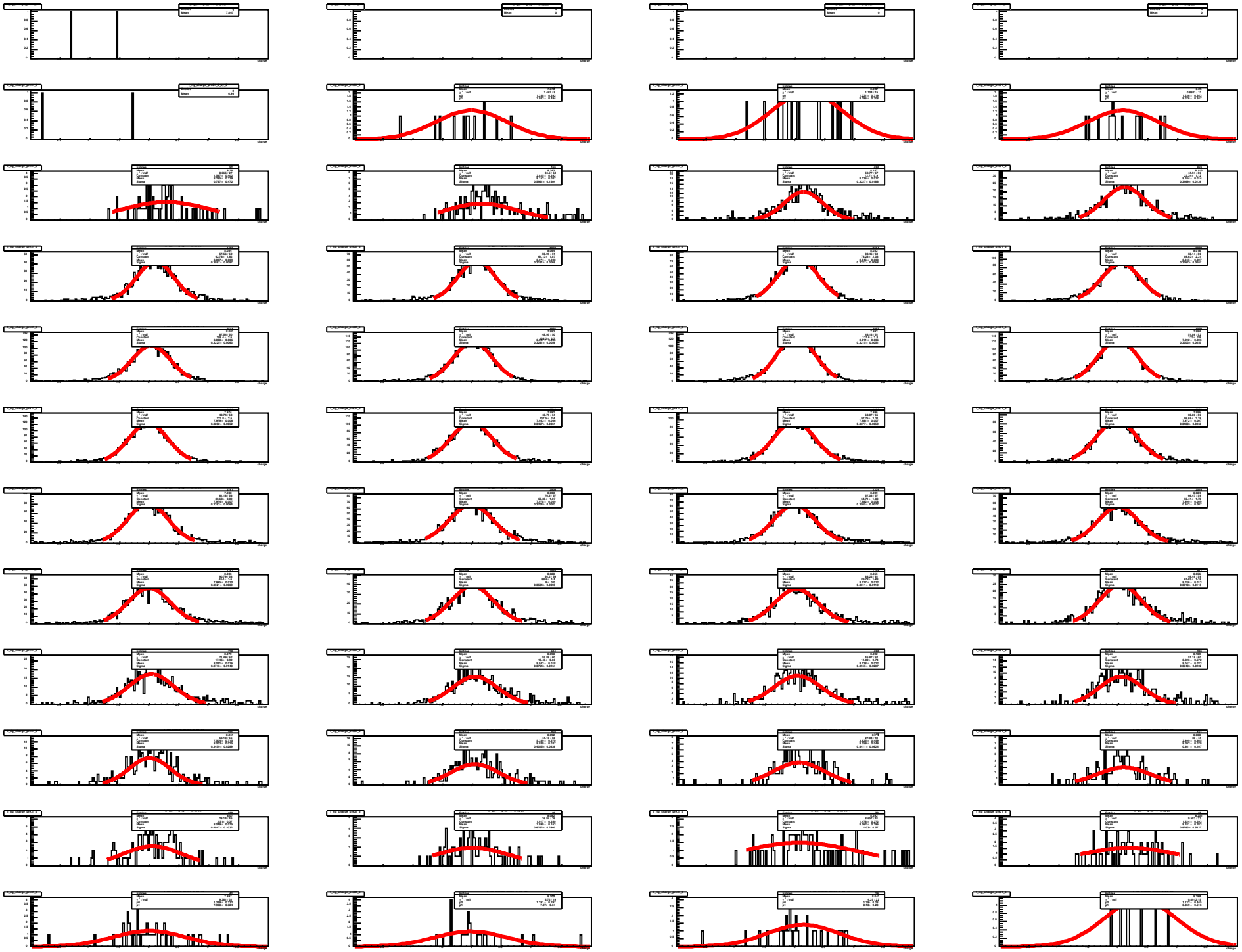
1_rig_charge_pre31_4 Carbon



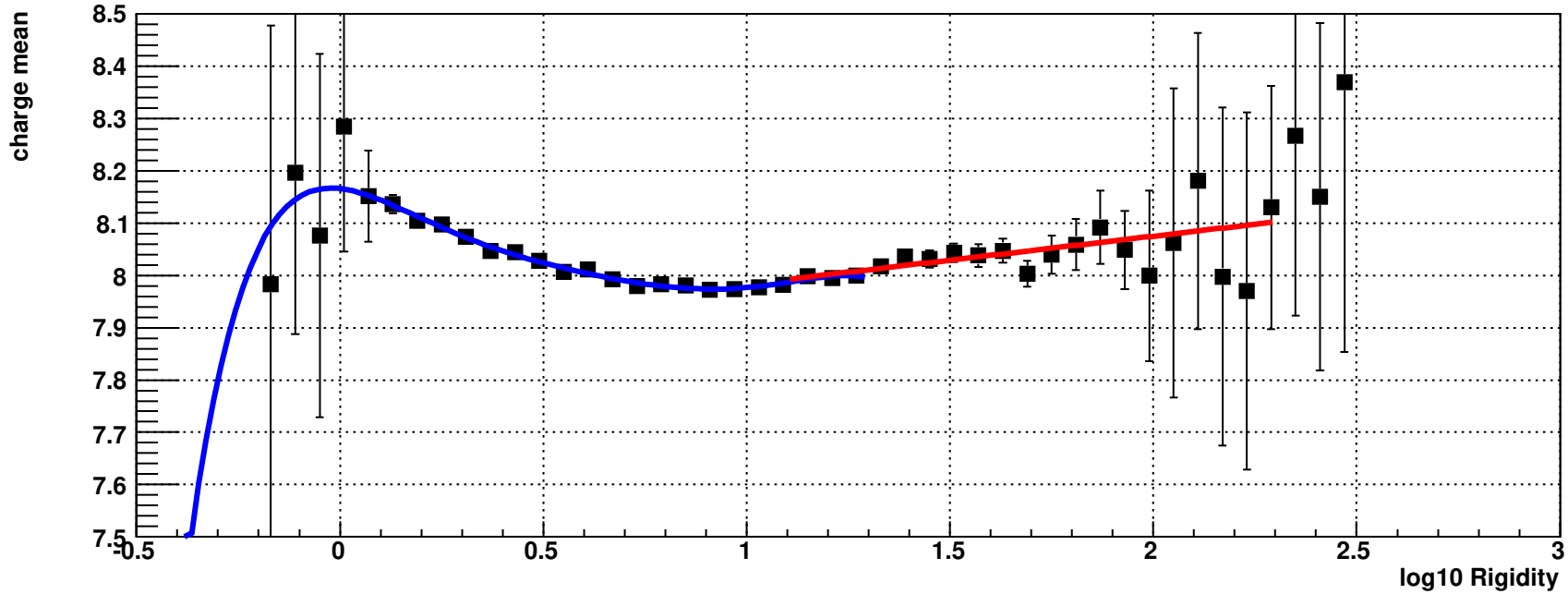
1_rig_charge_pre31_4 Carbon



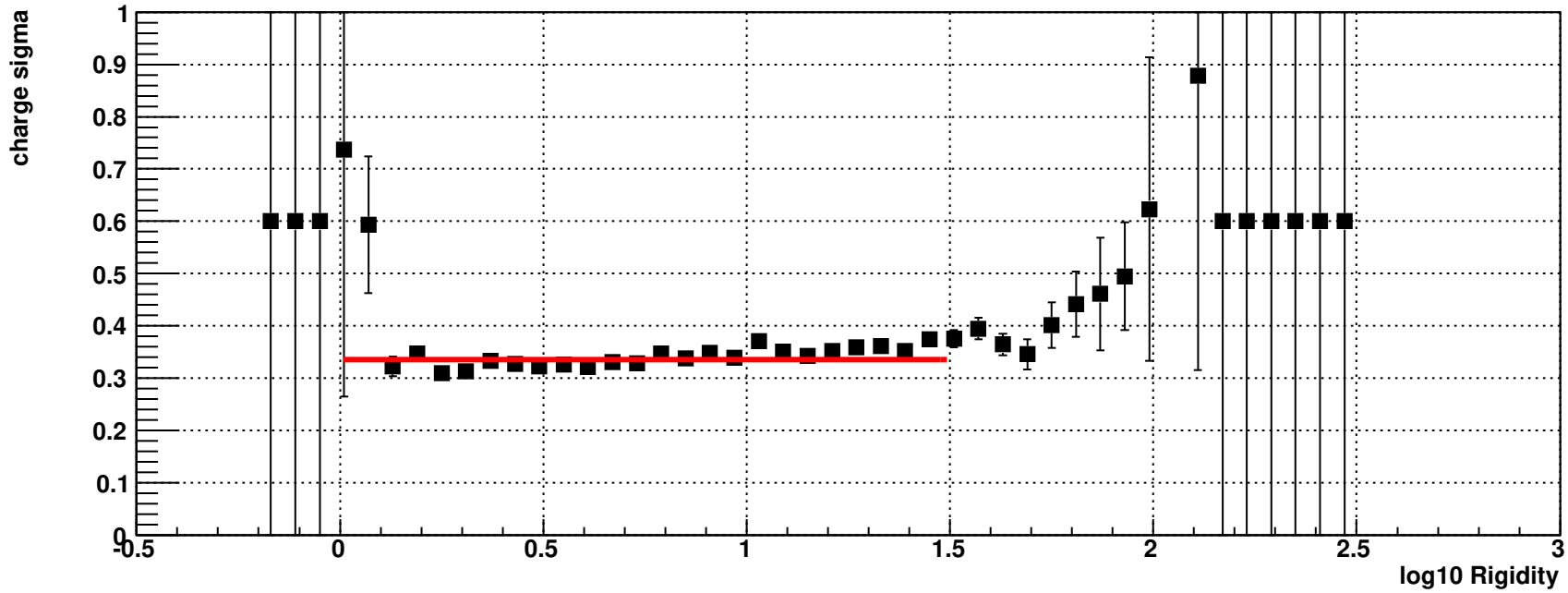

1_rig_charge_pre31_5
1_rig_charge_pre31_5
Entries 9747
Entries: 59507
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

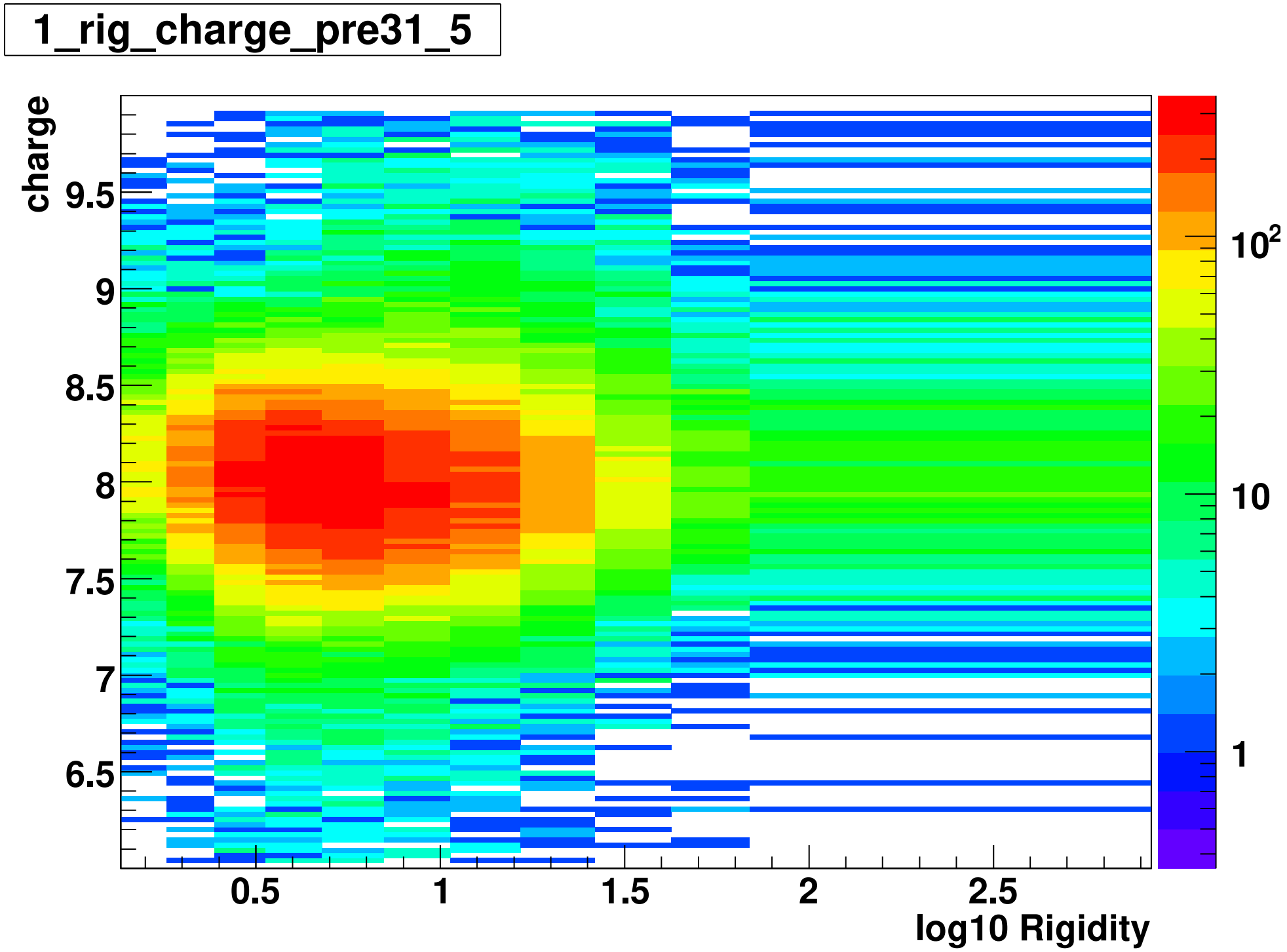


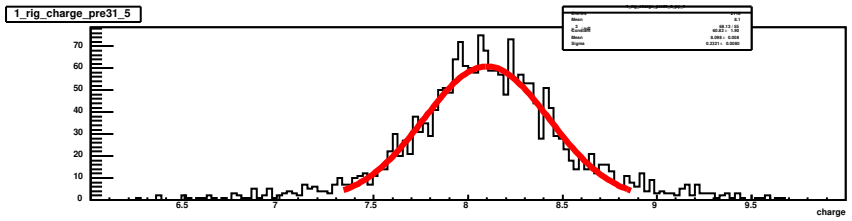
1_rig_charge_pre31_5_py_50

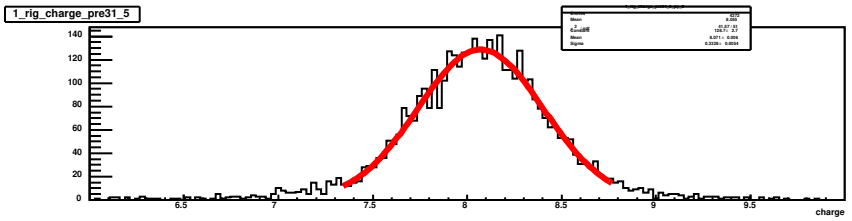


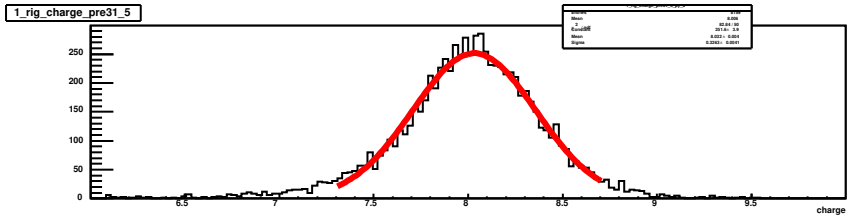
1_rig_charge_pre31_5_py_50

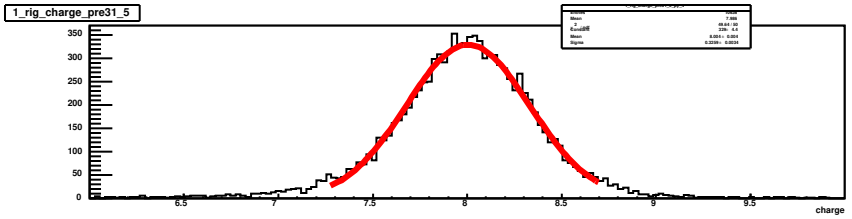


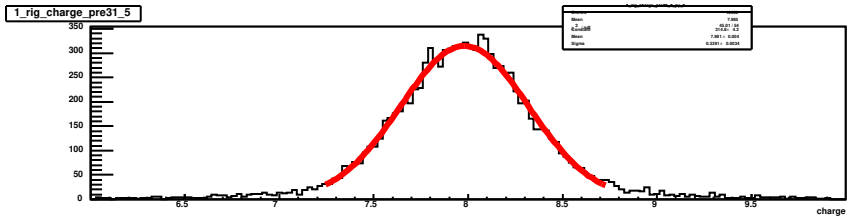

1_rig_charge_pre31_5
charge
9.5
9
8.5
8
7.5
7
6.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

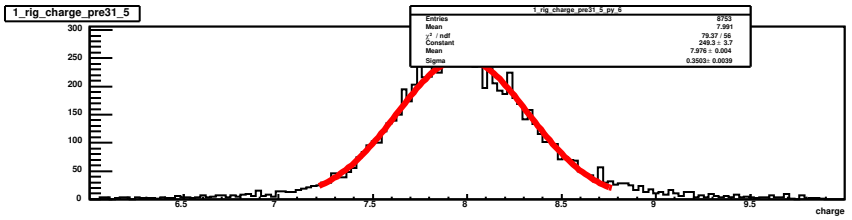

1_rig_charge_pre31_5
charge

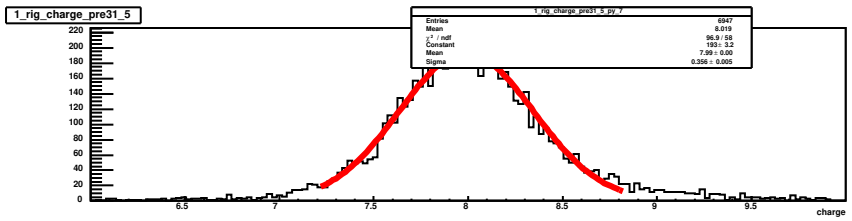

1_rig_charge_pre31_5
charge

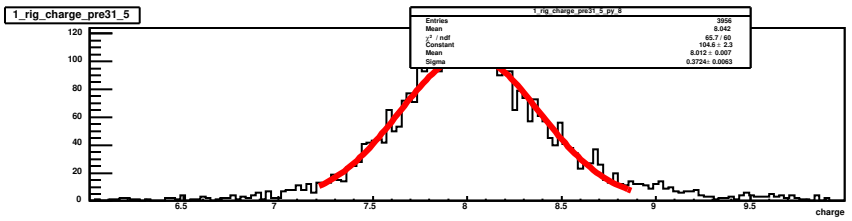

1_rig_charge_pre31_5
charge

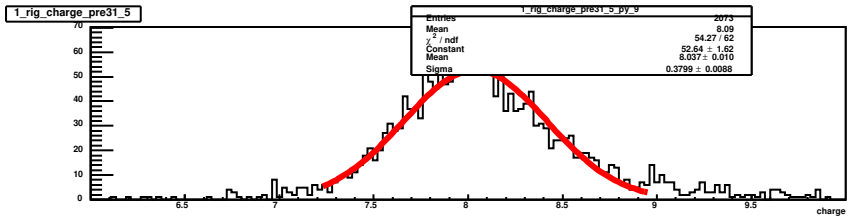

1_rig_charge_pre31_5
charge

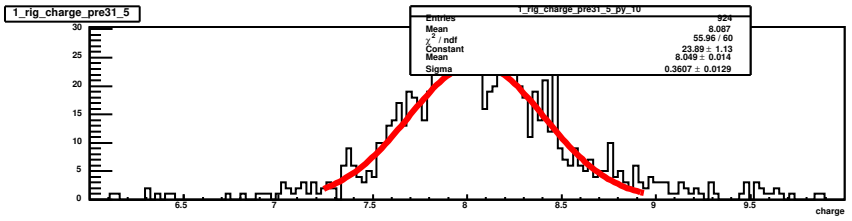

1_rig_charge_pre31_5
charge

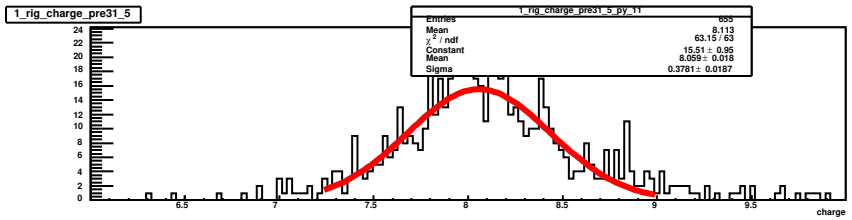

1_rig_charge_pre31_5
1_rig_charge_pre31_5_py_6
Entries 8753
Mean 7.991
χ² / ndf 79.37 / 56
Constant 249.3 ± 3.7
Mean 7.976 ± 0.004
Sigma 0.3503 ± 0.0039
charge


1_rig_charge_pre31_5
1_rig_charge_pre31_5_py_7
Entries 6947
Mean 8.019
χ² / ndf 96.9 / 59
Constant 193 ± 3.2
Mean 7.99 ± 0.00
Sigma 0.356 ± 0.005
charge

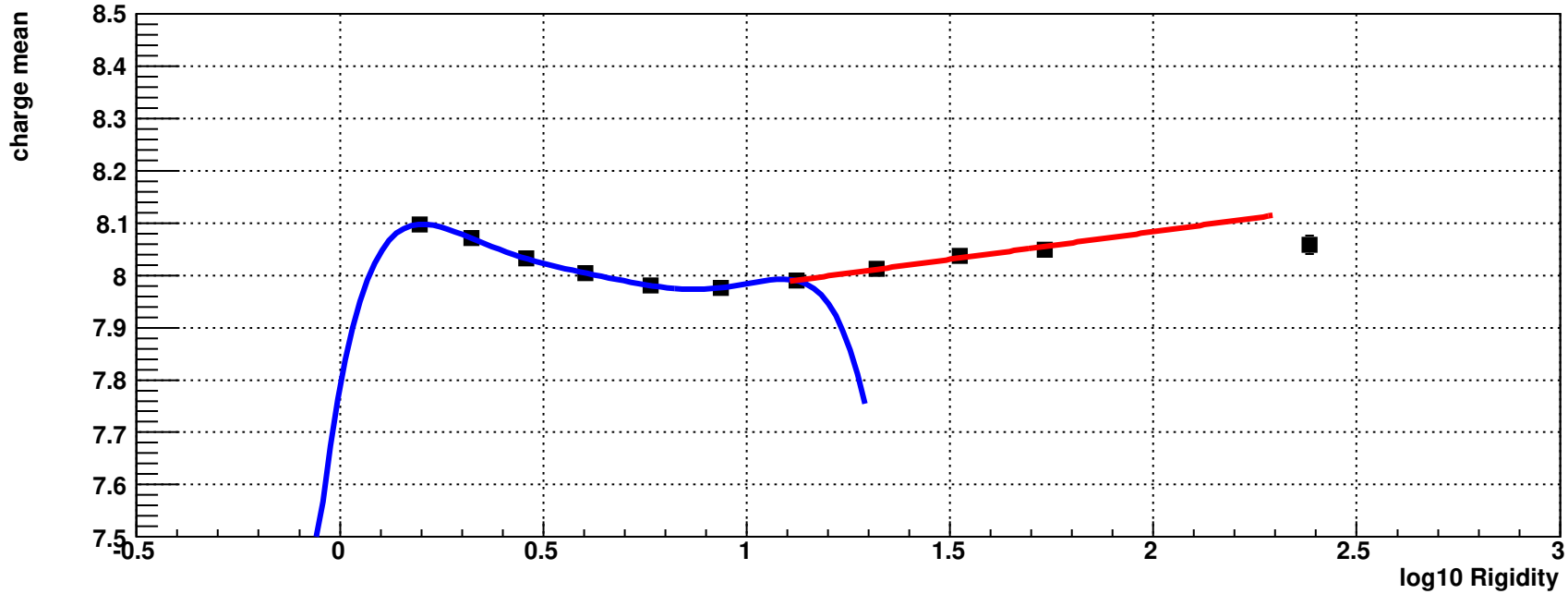

1_rig_charge_pre31_5
1_rig_charge_pre31_5_py_8
Entries 3956
Mean 8.042
χ² / ndf 65.7 / 60
Constant 104.6 ± 2.3
Mean 8.012 ± 0.007
Sigma 0.3724 ± 0.0063
charge


1_rig_charge_pre31_5
1_rig_charge_pre31_5_py_9
Entries 2073
Mean 8.09
χ² / ndf 54.27 / 62
Constant 52.64 ± 1.62
Mean 8.037 ± 0.010
Sigma 0.3799 ± 0.0088
charge

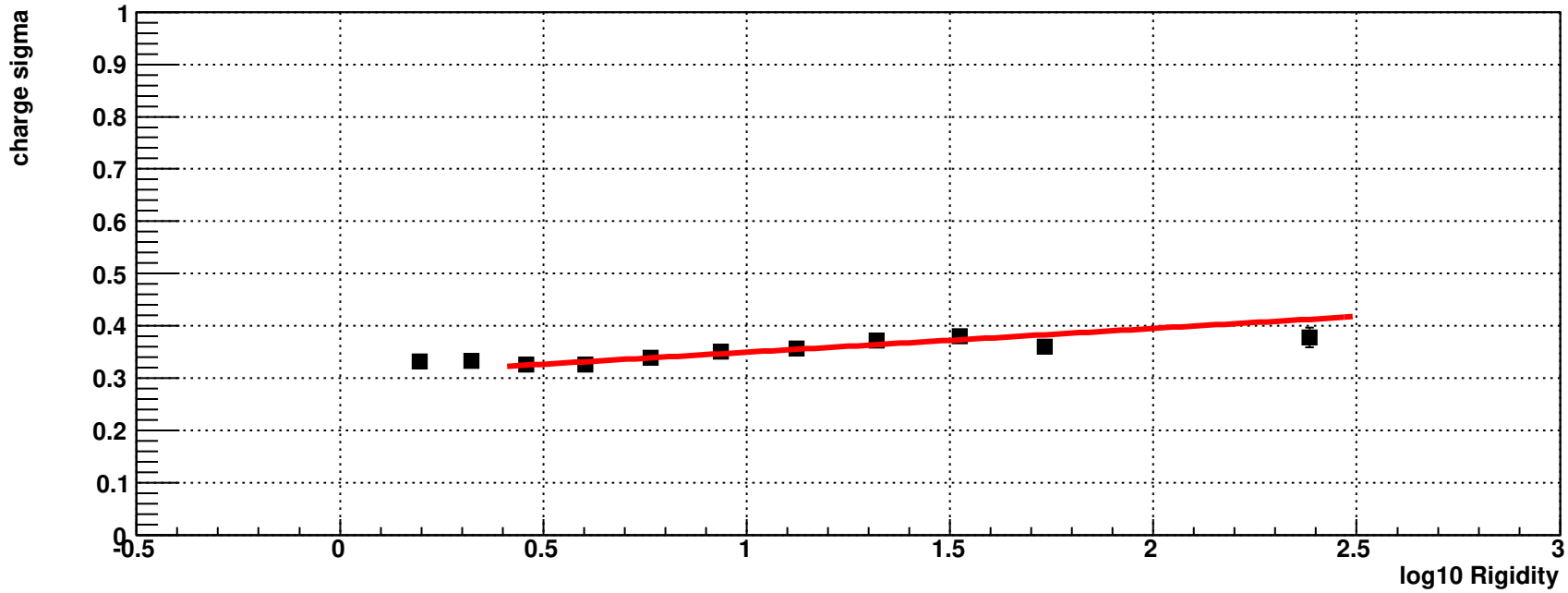

1_rig_charge_pre31_5
1_rig_charge_pre31_5_py_10
Entries 924
Mean 8.087
χ² / ndf 55.96 / 60
Constant 23.89 ± 1.13
Mean 8.049 ± 0.014
Sigma 0.3607 ± 0.0129
charge

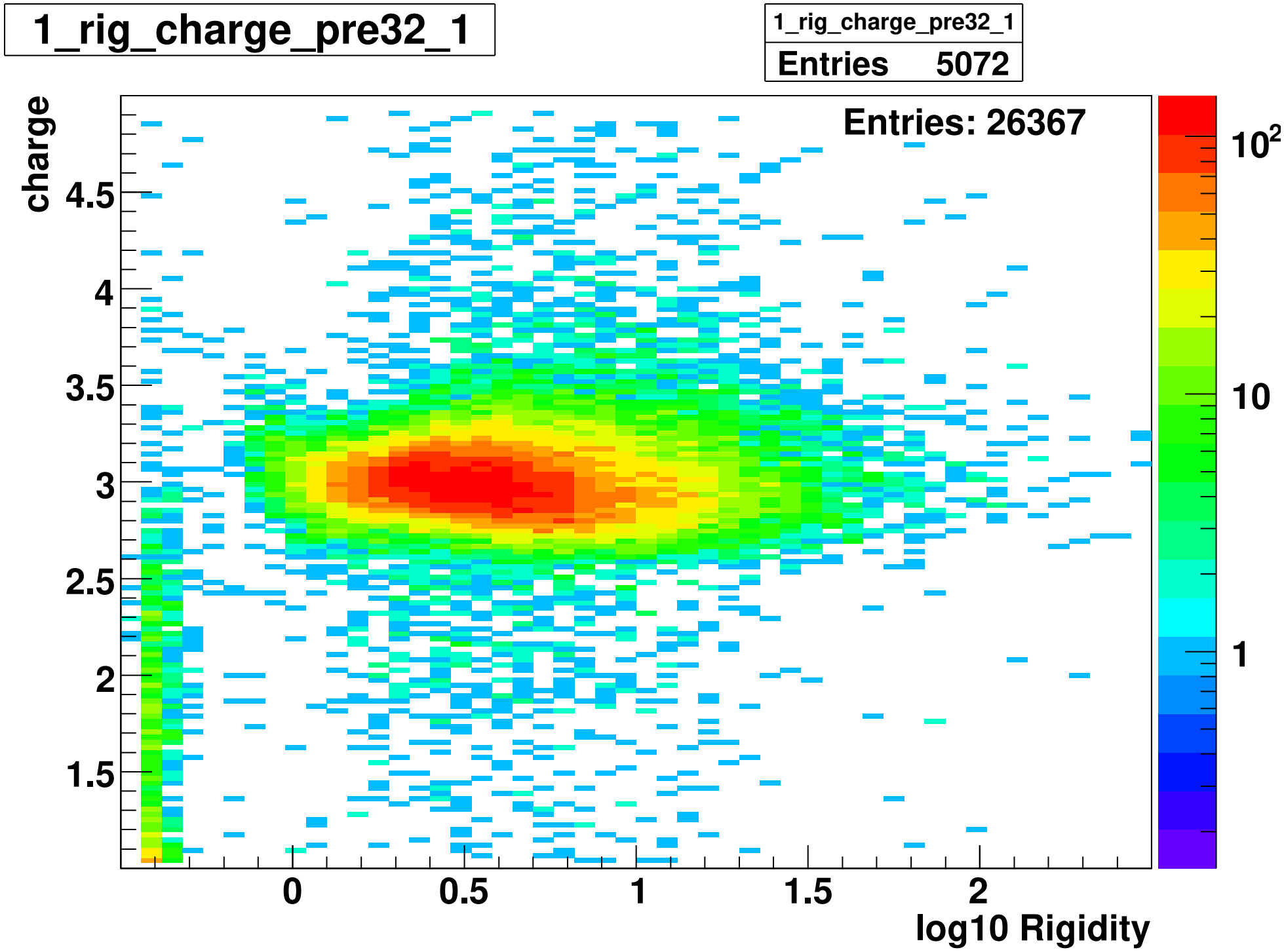

1_rig_charge_pre31_5
1_rig_charge_pre31_5_py_11
Entries 655
Mean 8.113
χ² / ndf 63.15 / 63
Constant 15.51 ± 0.95
Mean 8.059 ± 0.018
Sigma 0.3781 ± 0.0187
charge

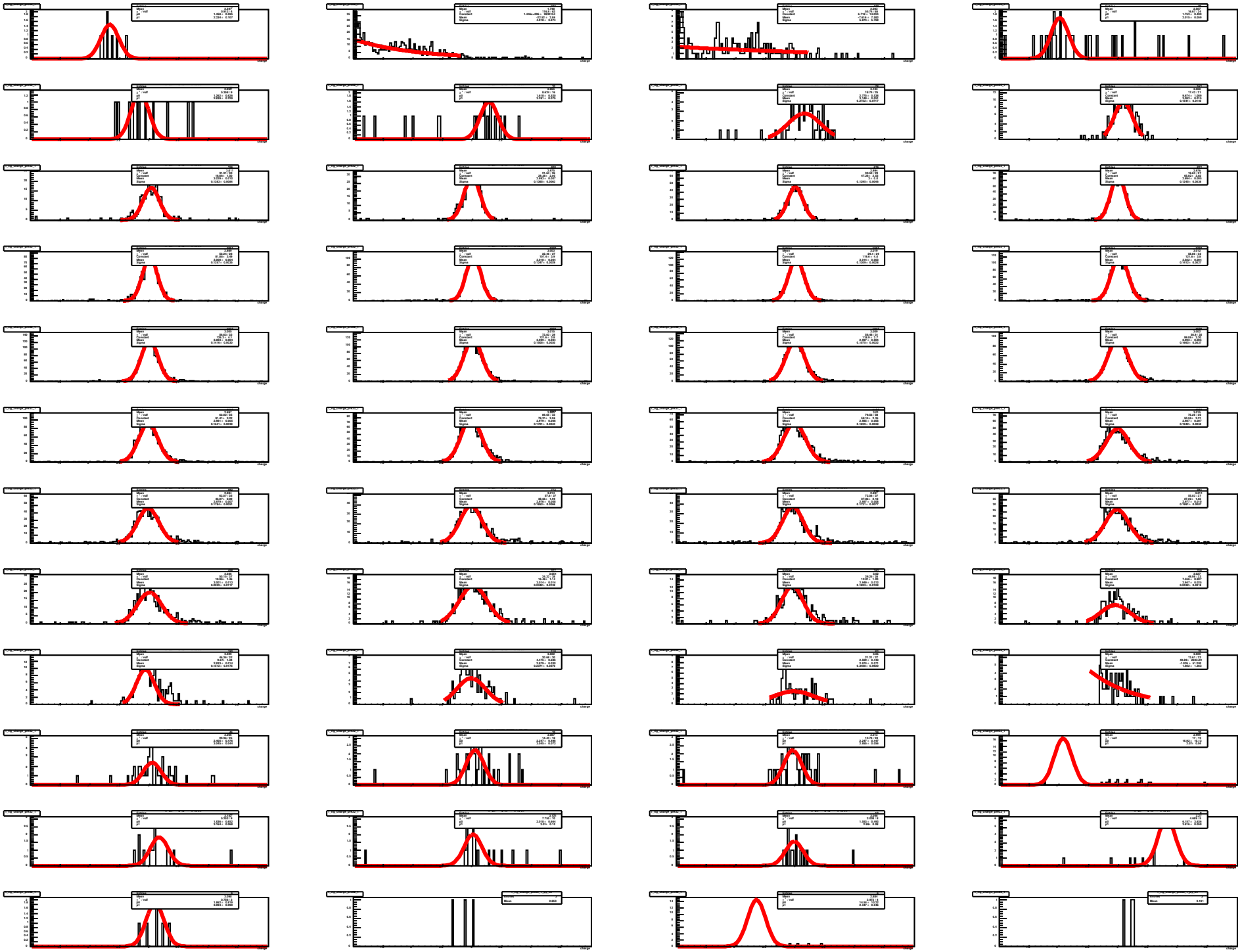
1_rig_charge_pre31_5_py_11



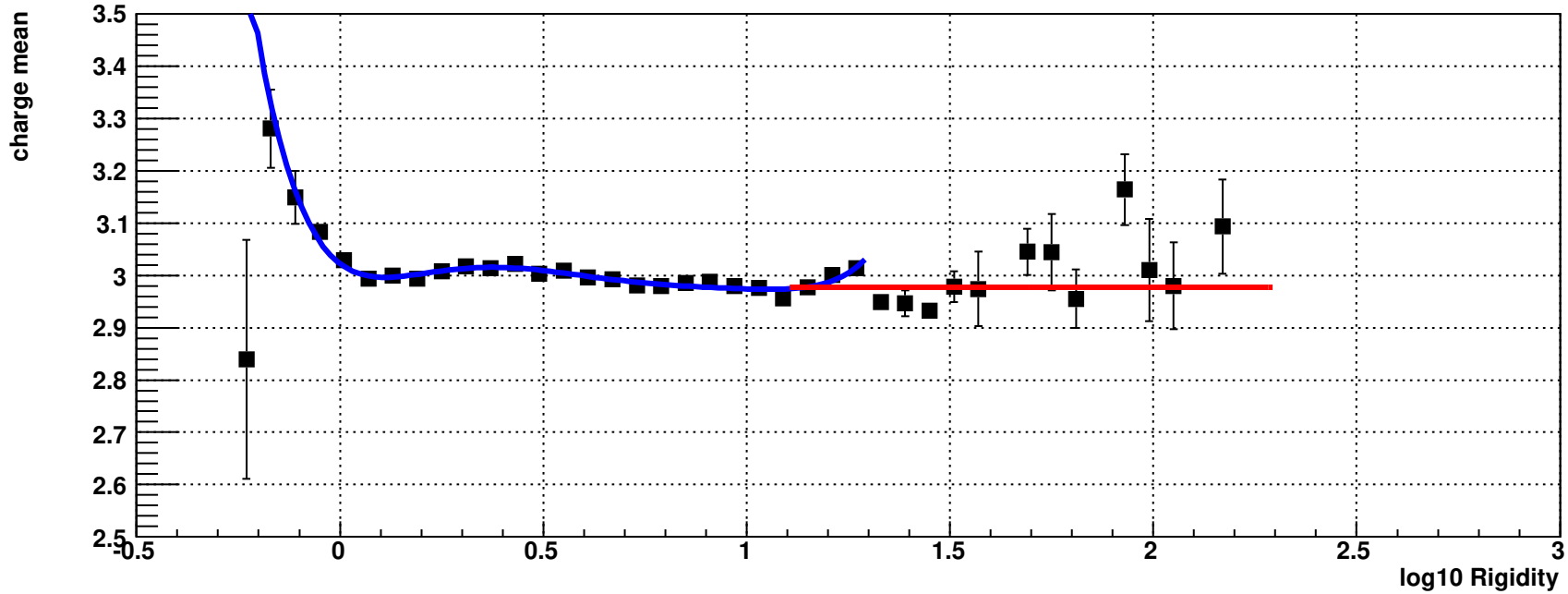
1_rig_charge_pre31_5_py_11



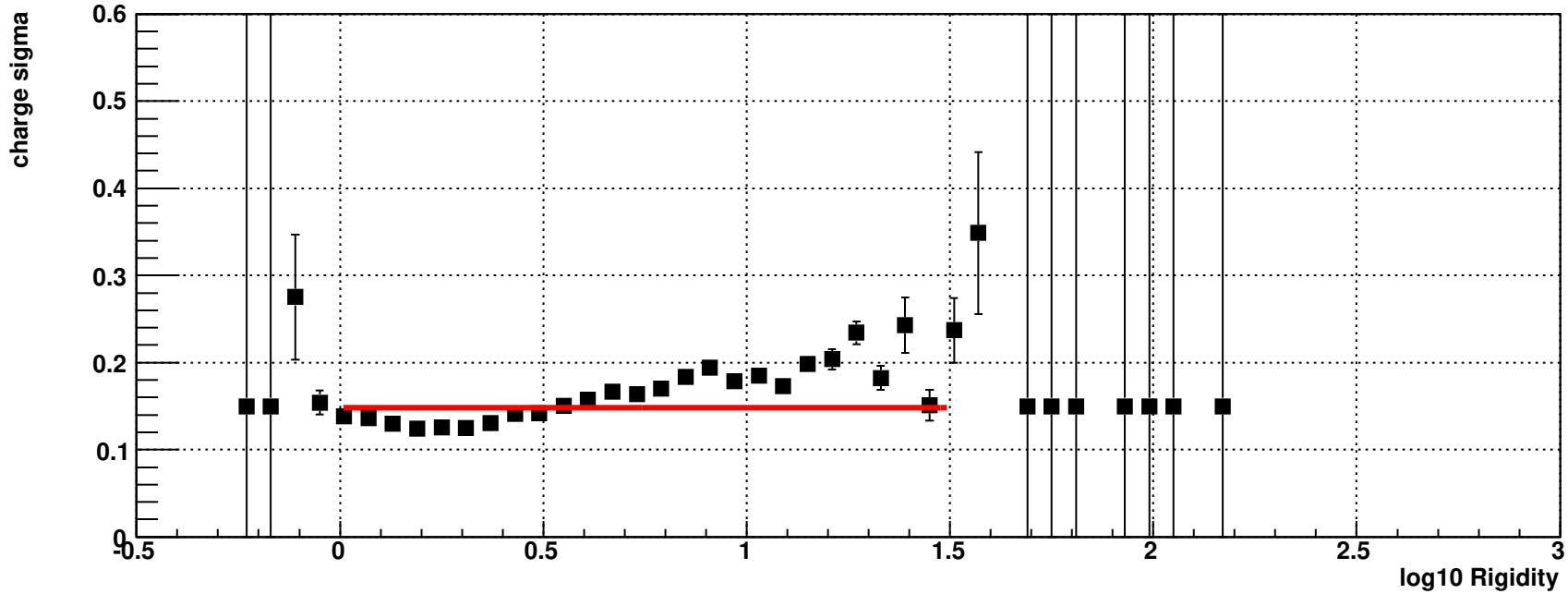

1_rig_charge_pre32_1
1_rig_charge_pre32_1
Entries 5072
Entries: 26367
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

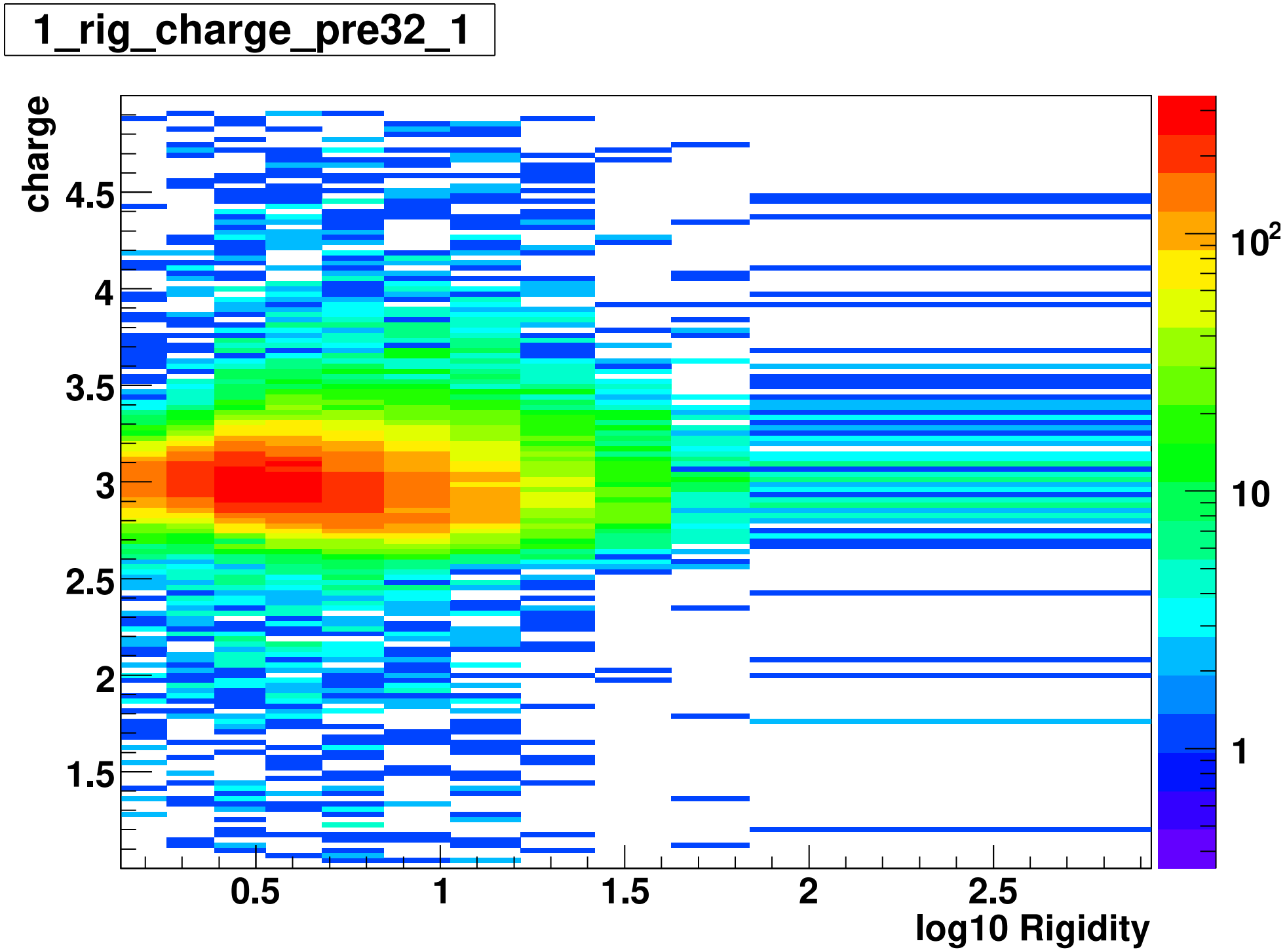


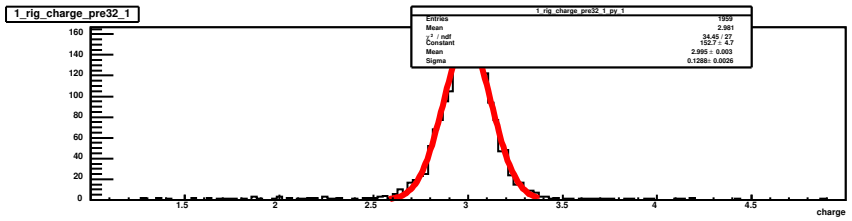
1_rig_charge_pre32_1 Lithium

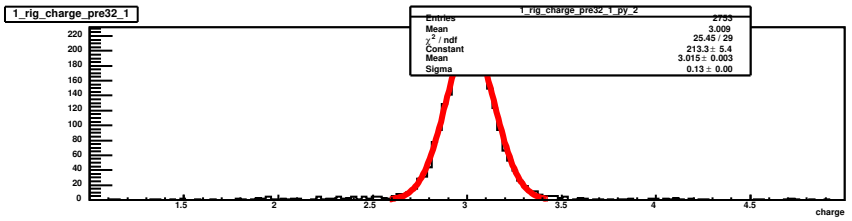


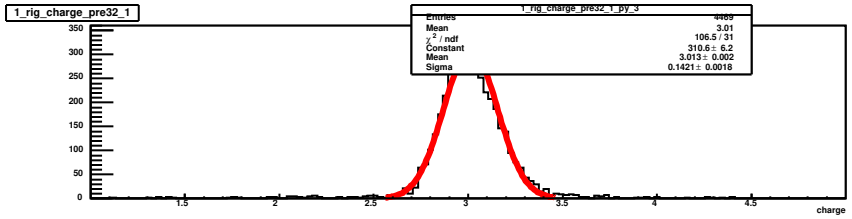
1_rig_charge_pre32_1 Lithium

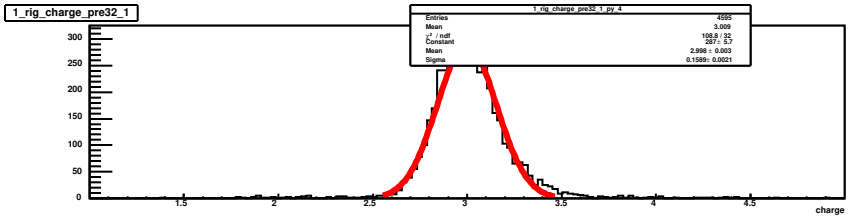


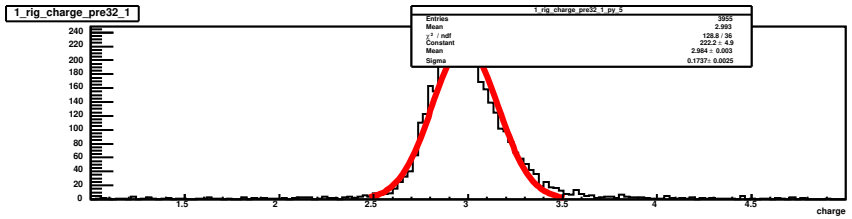

1_rig_charge_pre32_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

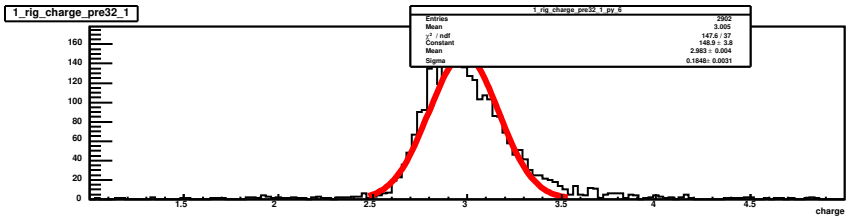

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_1
Entries 1999
Mean 2.981
χ² / ndf 34.45 / 27
Constant 152.7 ± 4.7
Mean 2.995 ± 0.003
Sigma 0.1288 ± 0.0026
charge

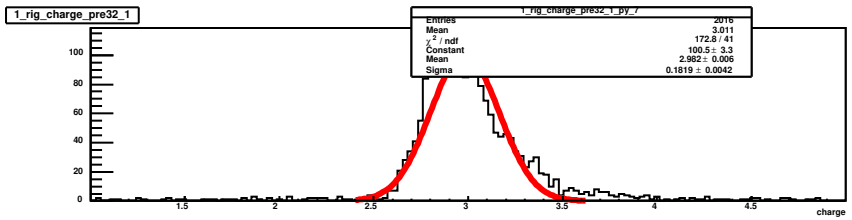

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_2
Entries 2753
Mean 3.009
χ² / ndf 25.45 / 29
Constant 213.3 ± 5.4
Mean 3.015 ± 0.003
Sigma 0.13 ± 0.00
charge

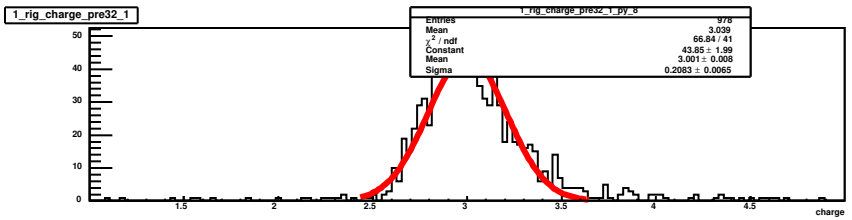

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_3
Entries 4469
Mean 3.01
χ² / ndf 106.5 / 31
Constant 310.6 ± 6.2
Mean 3.013 ± 0.002
Sigma 0.1421 ± 0.0018
charge

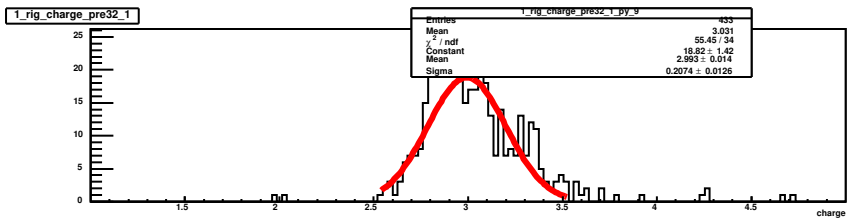

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_4
Entries 4595
Mean 3.009
χ² / ndf 108.8 / 32
Constant 287 ± 5.7
Mean 2.999 ± 0.003
Sigma 0.1589 ± 0.0021
charge

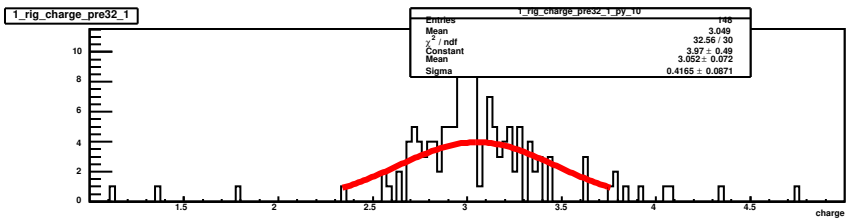

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_5
Entries 3955
Mean 2.993
χ² / ndf 128.8 / 36
Constant 222.2 ± 4.9
Mean 2.984 ± 0.003
Sigma 0.1737 ± 0.0025
charge

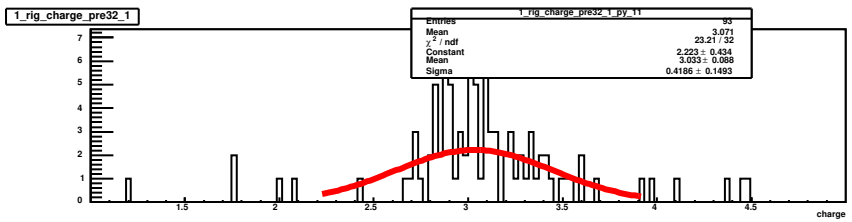

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_6
Entries 2902
Mean 3.005
χ² / ndf 147.6 / 37
Constant 148.9 ± 3.8
Mean 2.983 ± 0.004
Sigma 0.1848 ± 0.0031
charge


1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_7
Entries 2016
Mean 3.011
χ² / ndf 172.8 / 41
Constant 100.5 ± 3.3
Mean 2.982 ± 0.006
Sigma 0.1819 ± 0.0042
charge

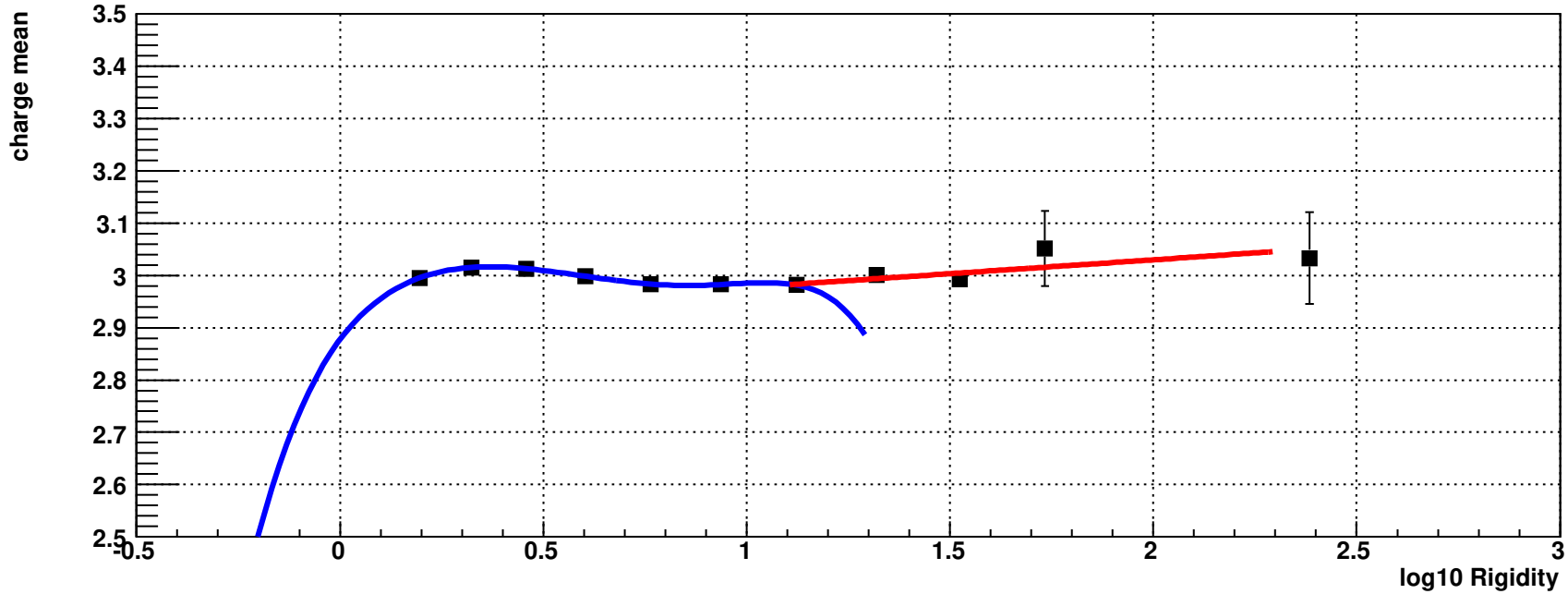

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_8
Entries 978
Mean 3.039
χ² / ndf 66.84 / 41
Constant 43.85 ± 1.99
Mean 3.001 ± 0.008
Sigma 0.2083 ± 0.0065
charge


1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_9
Entries 433
Mean 3.031
χ² / ndf 55.45 / 34
Constant 18.82 ± 1.42
Mean 2.993 ± 0.014
Sigma 0.2074 ± 0.0126
charge

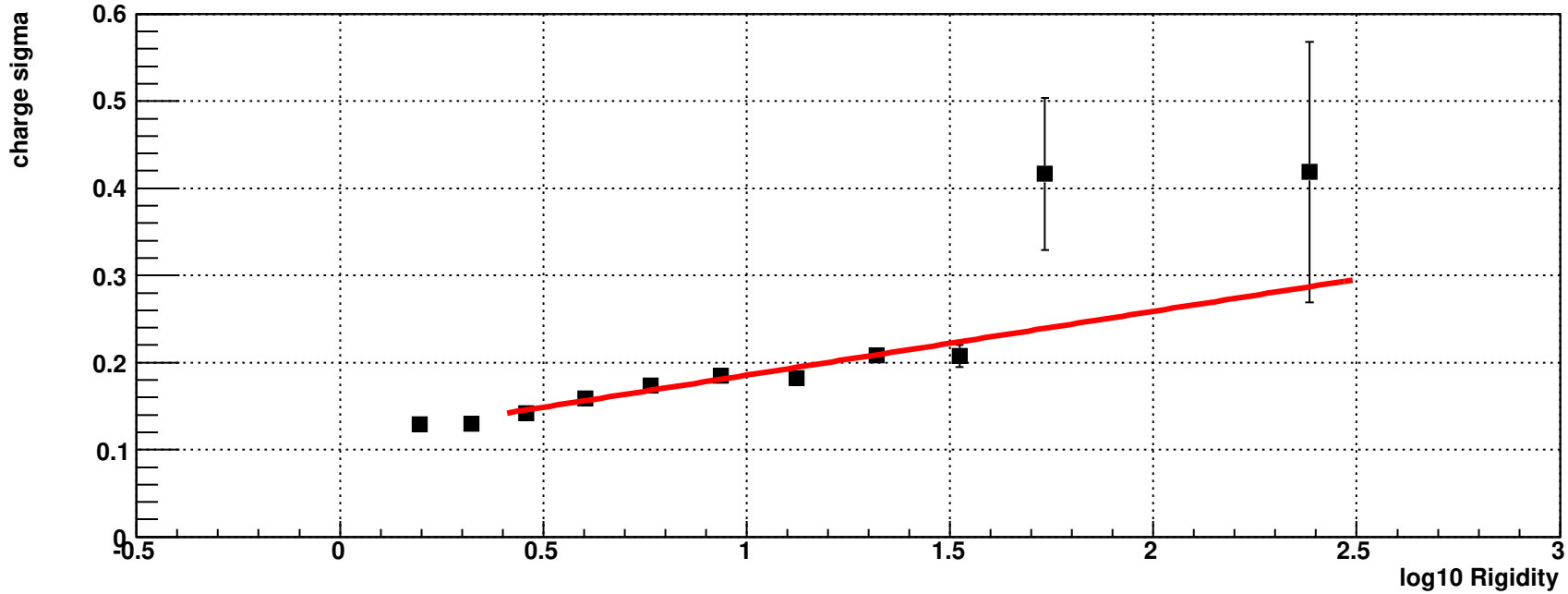

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_10
Entries 148
Mean 3.049
χ² / ndf 32.56 / 30
Constant 3.97 ± 0.49
Mean 3.052 ± 0.072
Sigma 0.4165 ± 0.0871
charge

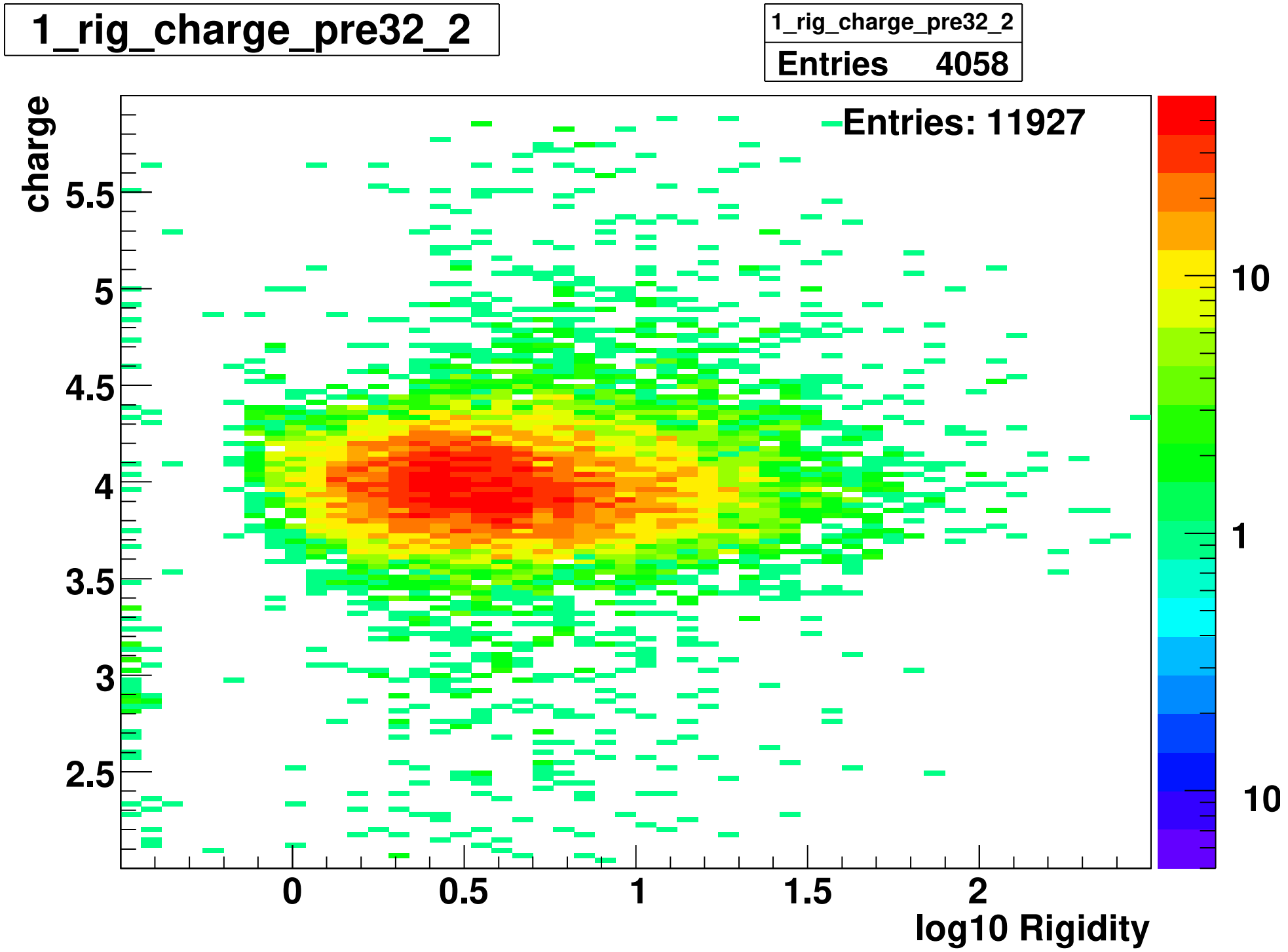

1_rig_charge_pre32_1
1_rig_charge_pre32_1_py_11
Entries 93
Mean 3.071
χ² / ndf 23.21 / 32
Constant 2.223 ± 0.434
Mean 3.033 ± 0.088
Sigma 0.4186 ± 0.1493
charge

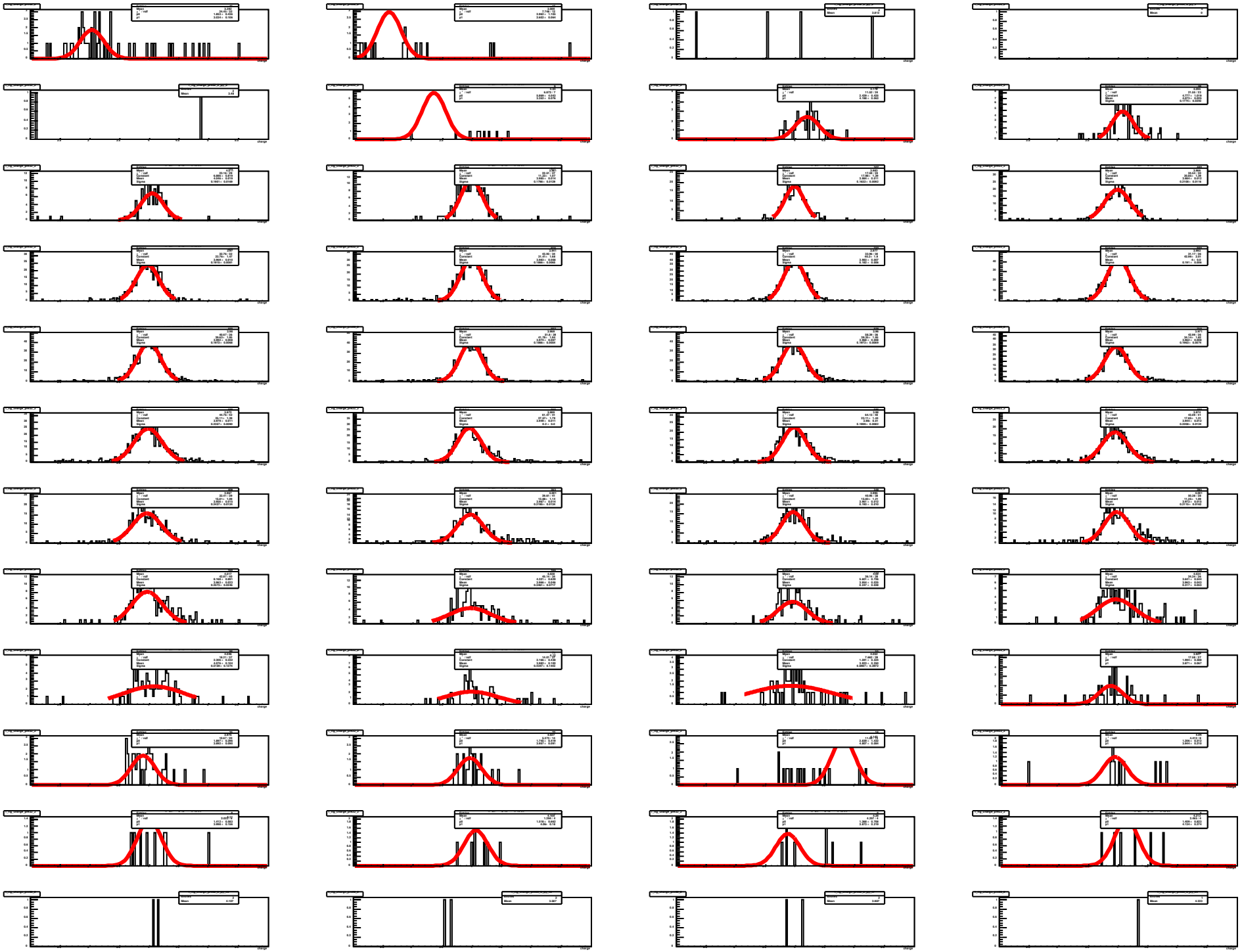
1_rig_charge_pre32_1 Lithium



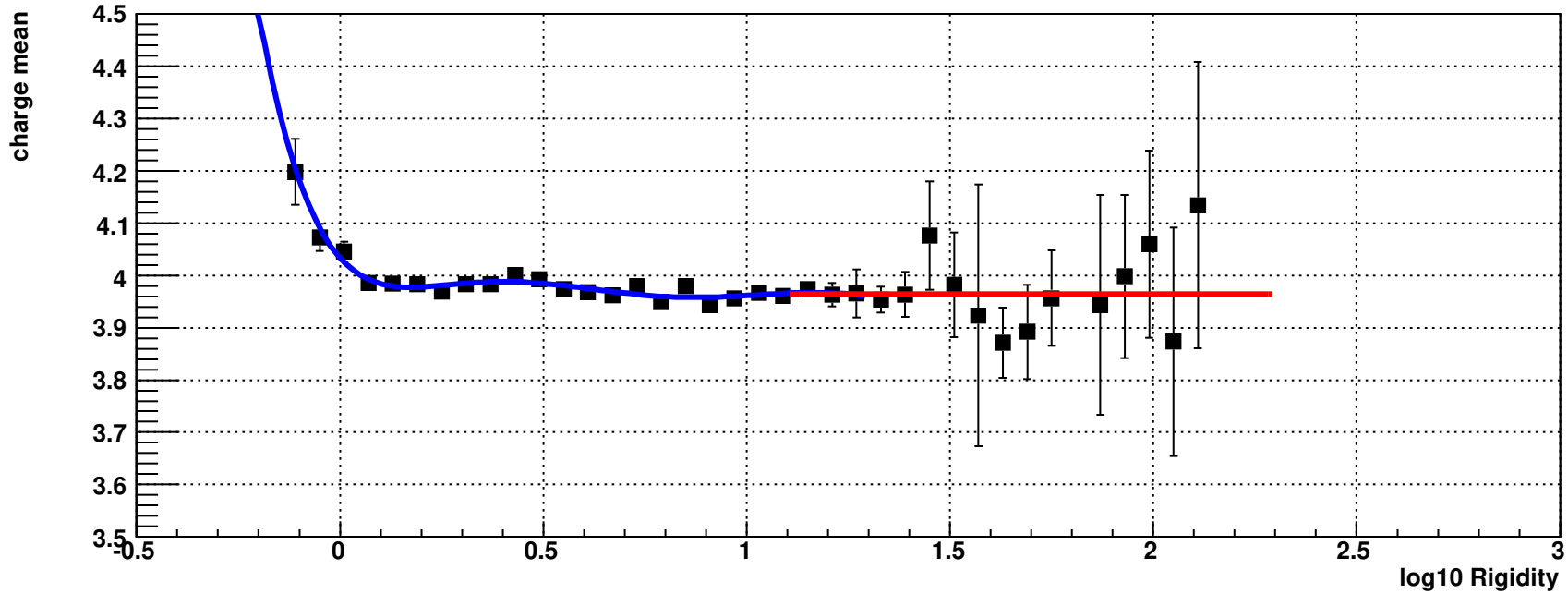
1_rig_charge_pre32_1 Lithium



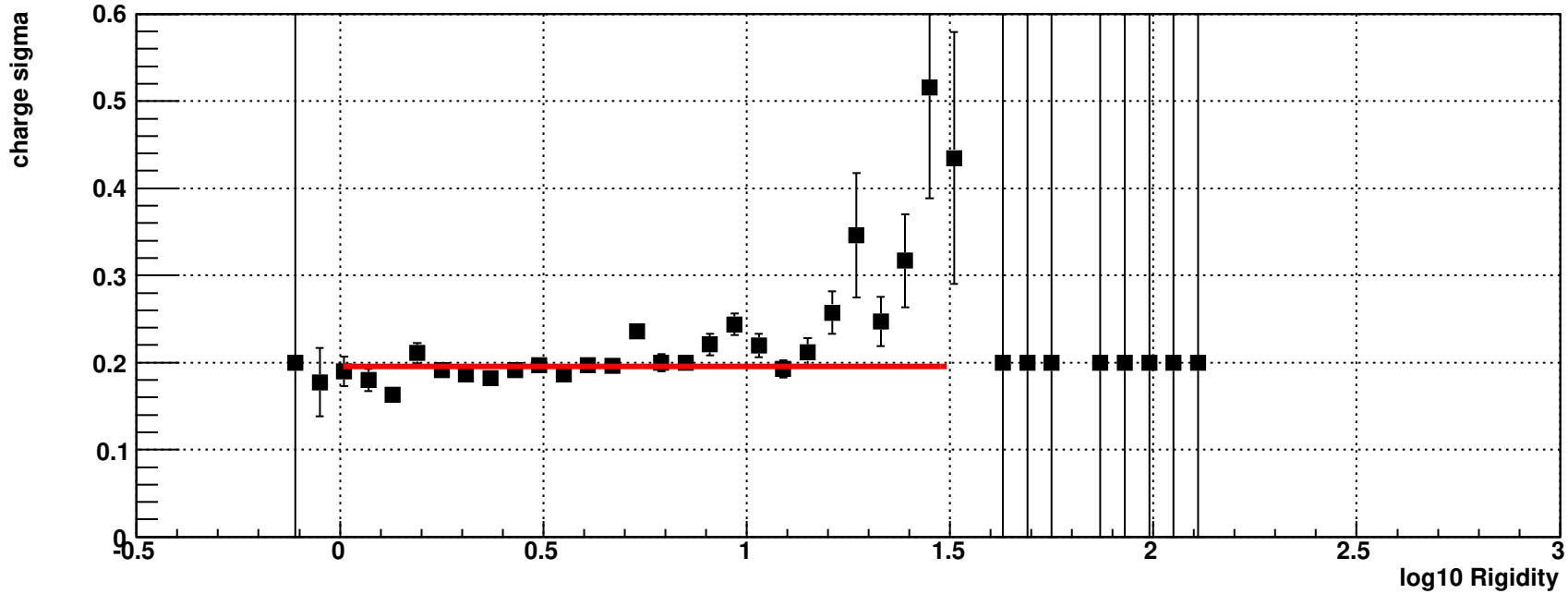

1_rig_charge_pre32_2
1_rig_charge_pre32_2
Entries 4058
Entries: 11927
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

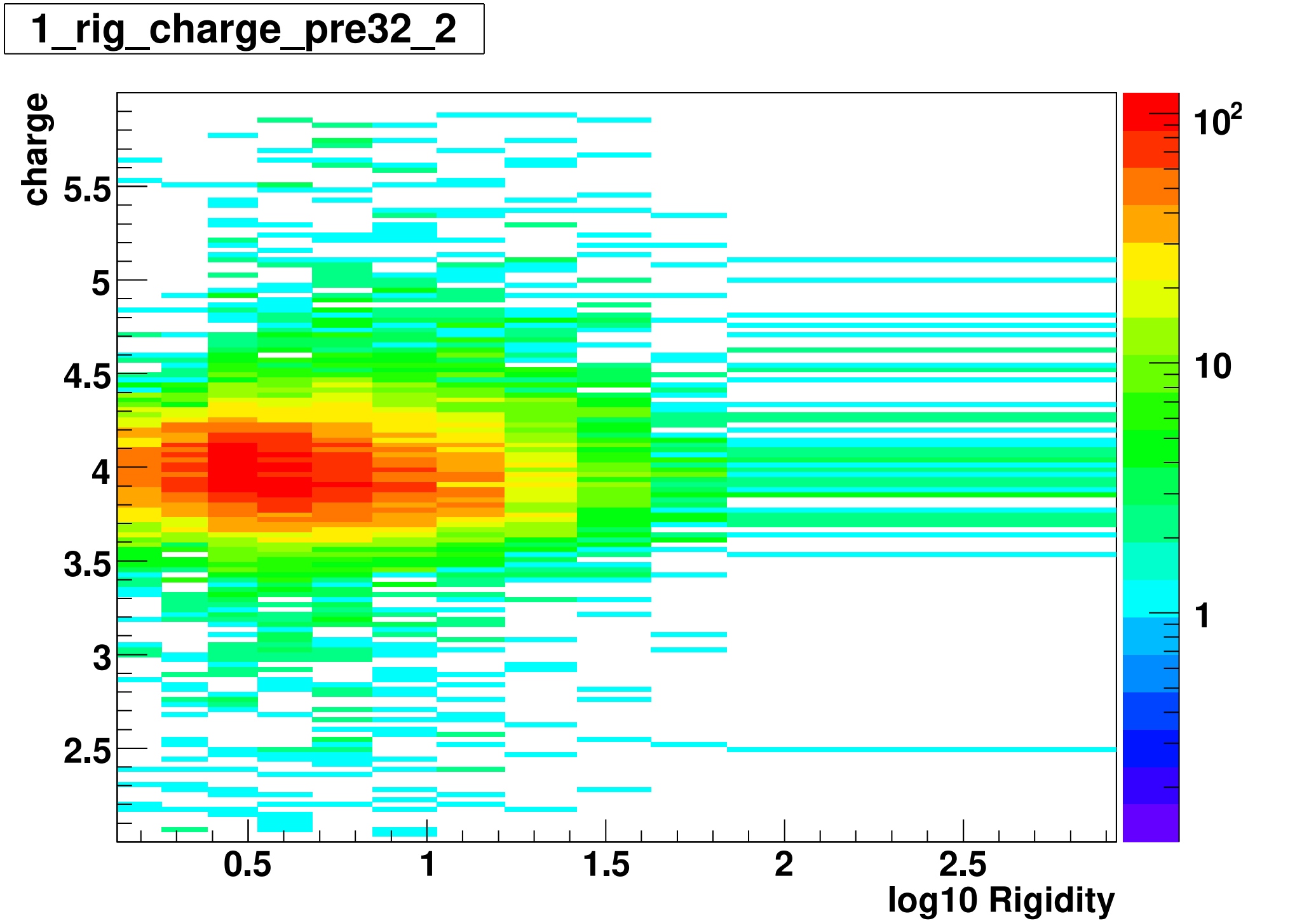


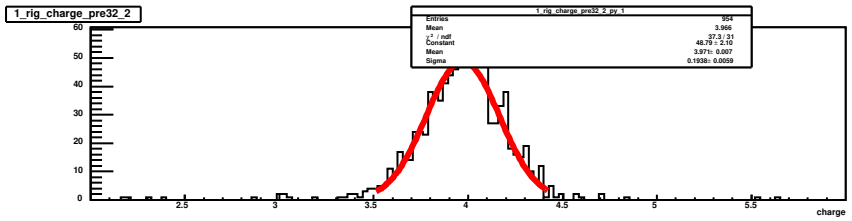
1_rig_charge_pre32_2 Beryllium

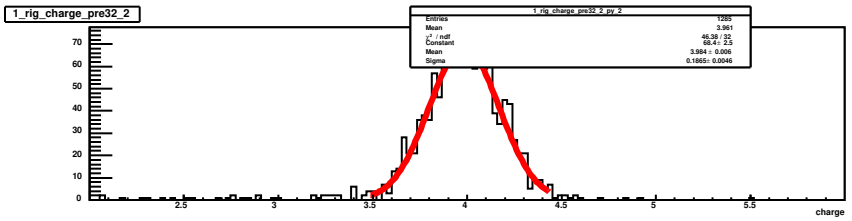


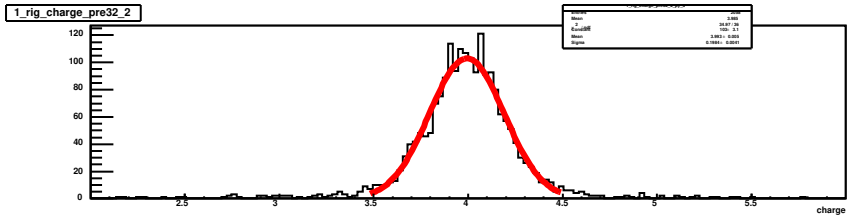
1_rig_charge_pre32_2 Beryllium

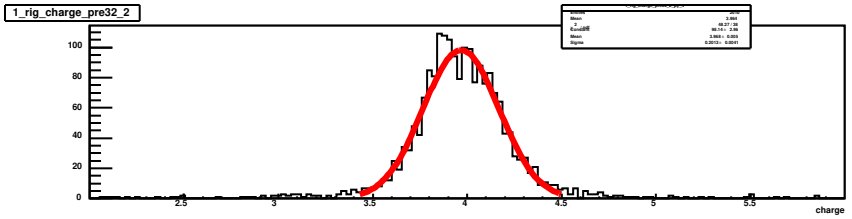


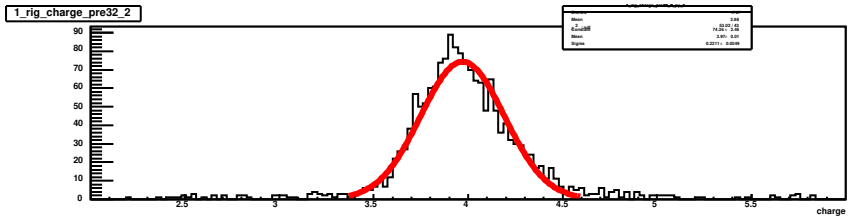

1_rig_charge_pre32_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

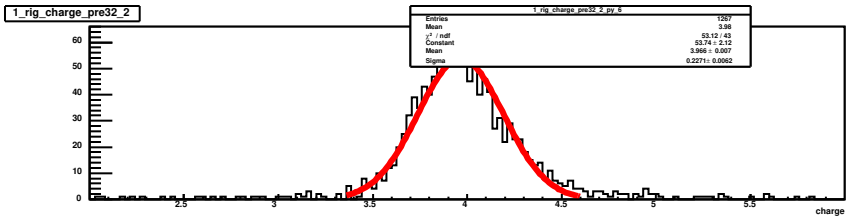

1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_1
Entries 864
Mean 3.966
χ² / ndf 37.3 / 31
Constant 46.79 ± 2.10
Mean 3.971± 0.007
Sigma 0.1938± 0.0059
charge

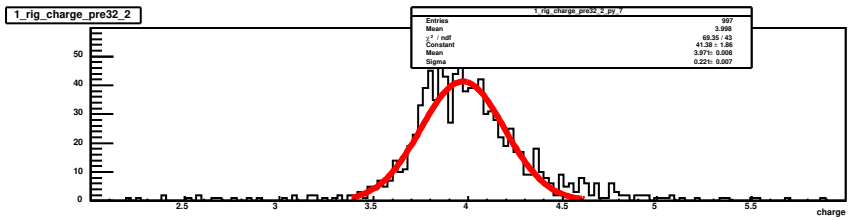

1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_2
Entries 1285
Mean 3.961
χ² / ndf 46.38 / 32
Constant 68.4 ± 2.5
Mean 3.984 ± 0.006
Sigma 0.1865± 0.0046
charge

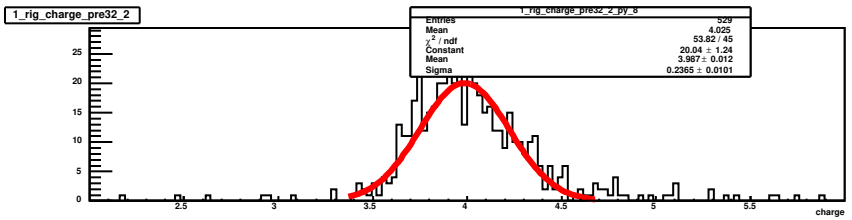

1_rig_charge_pre32_2
charge

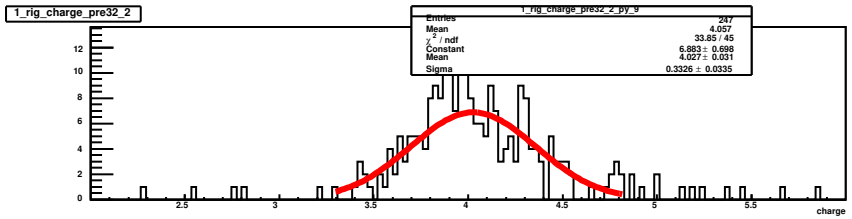

1_rig_charge_pre32_2
charge

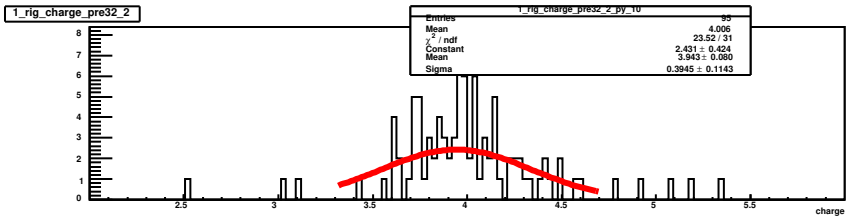

1_rig_charge_pre32_2
charge

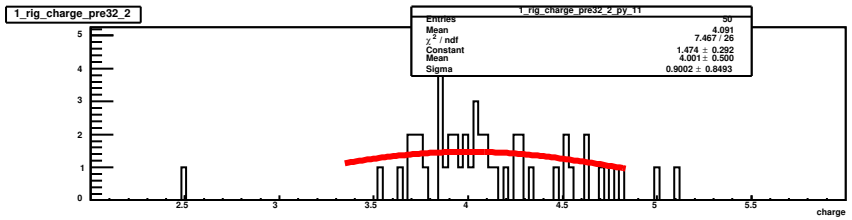

1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_6
Entries 1267
Mean 3.98
χ² / ndf 53.12 / 43
Constant 53.74 ± 2.12
Mean 3.966 ± 0.007
Sigma 0.2271± 0.0062
charge


1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_7
Entries 997
Mean 3.998
χ² / ndf 69.35 / 43
Constant 41.38 ± 1.86
Mean 3.971± 0.008
Sigma 0.221± 0.007
charge

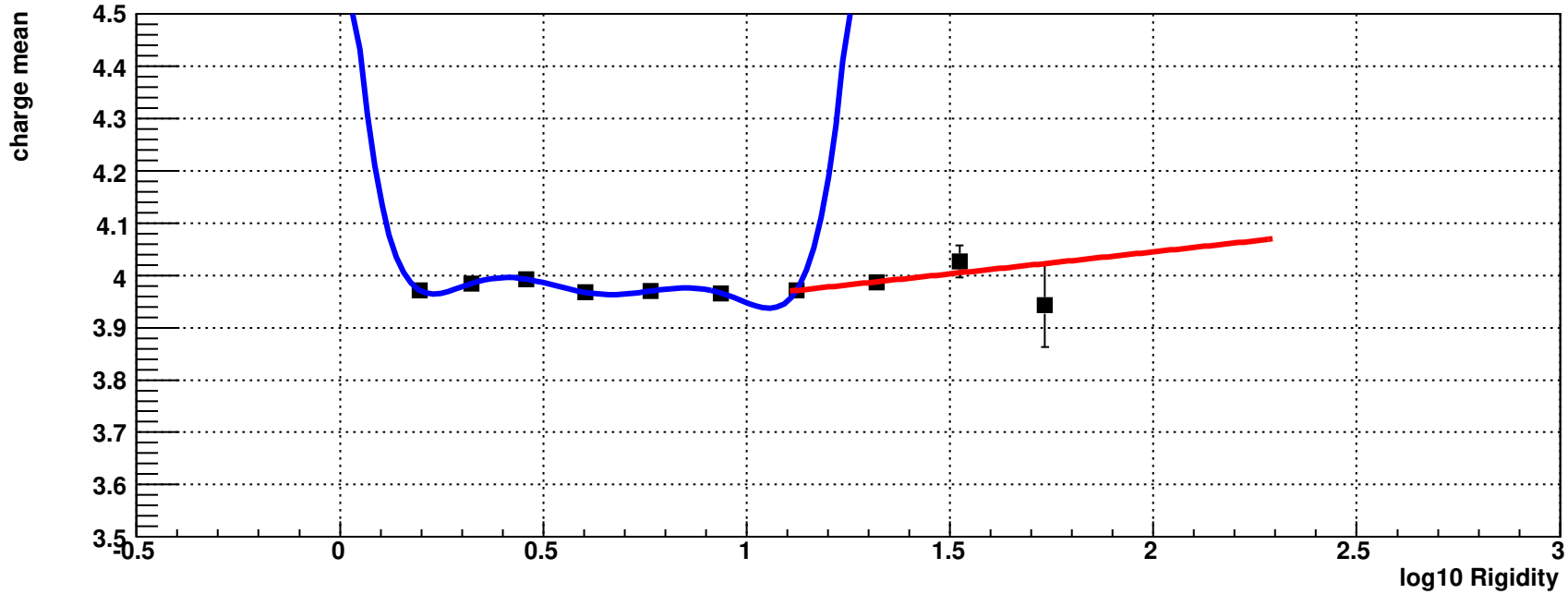

1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_8
Entries 529
Mean 4.025
χ² / ndf 53.82 / 45
Constant 20.04 ± 1.24
Mean 3.987 ± 0.012
Sigma 0.2365 ± 0.0101
charge


1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_9
Entries 247
Mean 4.057
χ² / ndf 33.85 / 45
Constant 6.883 ± 0.698
Mean 4.027 ± 0.031
Sigma 0.3326 ± 0.0335
charge

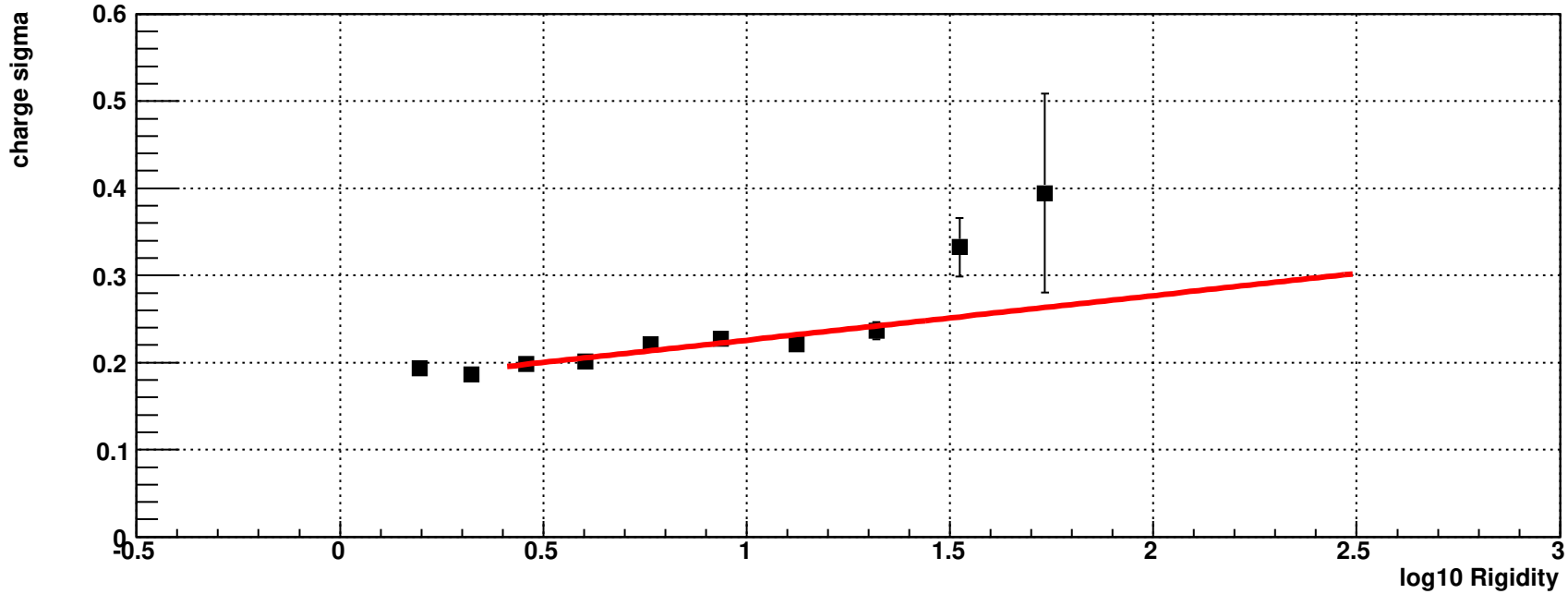

1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_10
Entries 95
Mean 4.006
χ² / ndf 23.52 / 31
Constant 2.431 ± 0.424
Mean 3.943 ± 0.080
Sigma 0.3945 ± 0.1143
charge

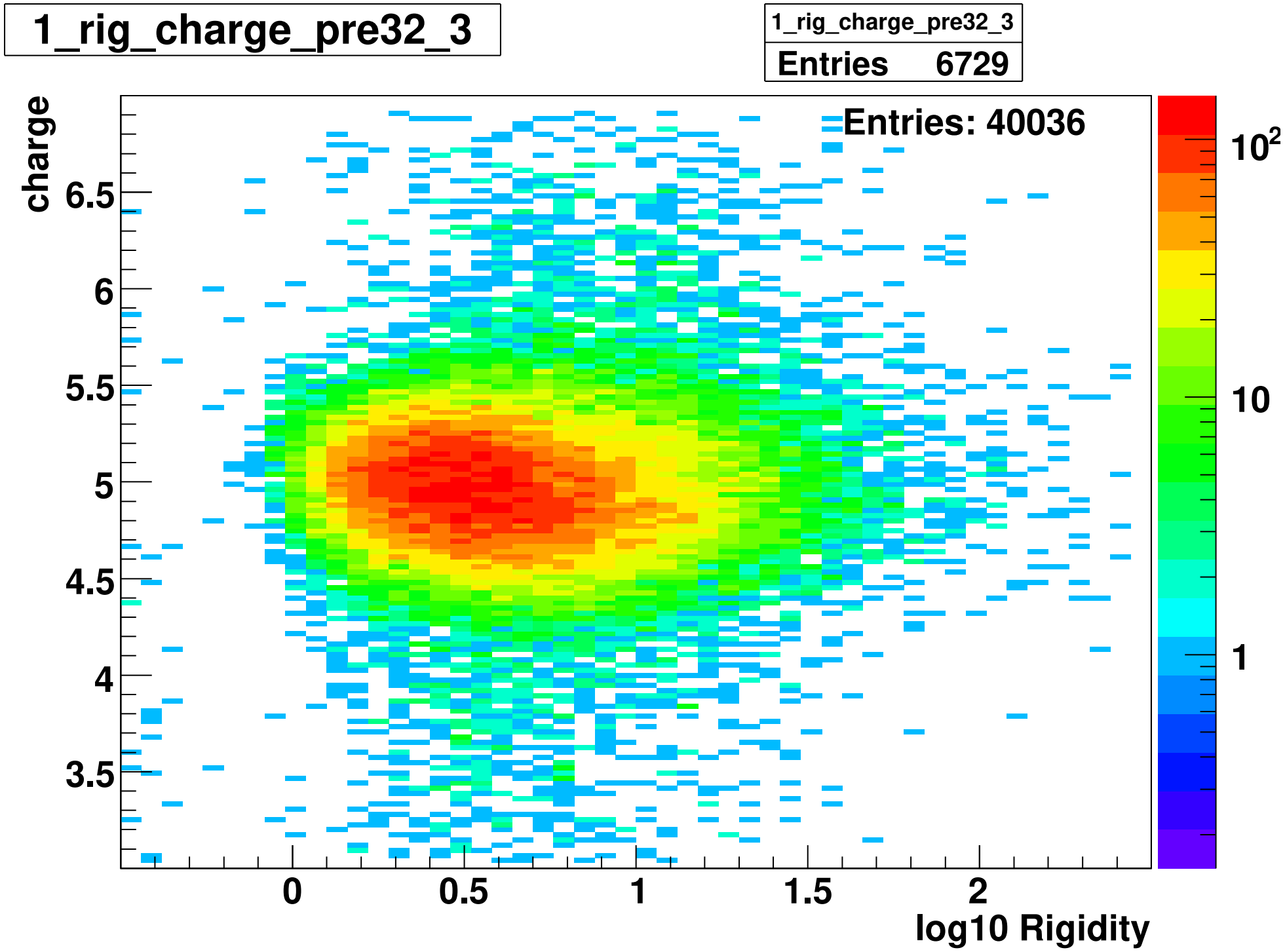

1_rig_charge_pre32_2
1_rig_charge_pre32_2_py_11
Entries 50
Mean 4.091
χ² / ndf 7.467 / 26
Constant 1.474 ± 0.292
Mean 4.001 ± 0.500
Sigma 0.9002 ± 0.8493
charge

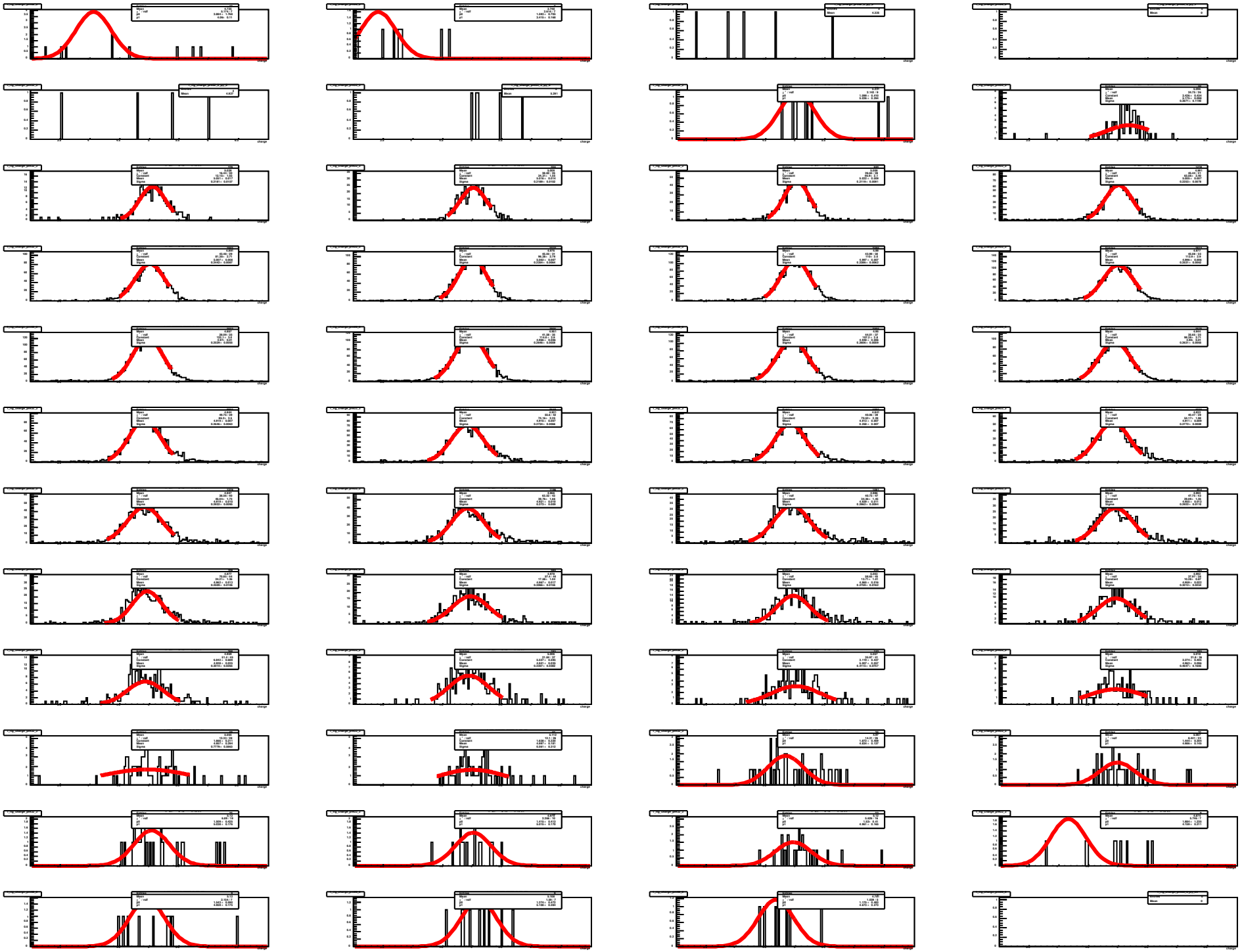
1_rig_charge_pre32_2 Beryllium



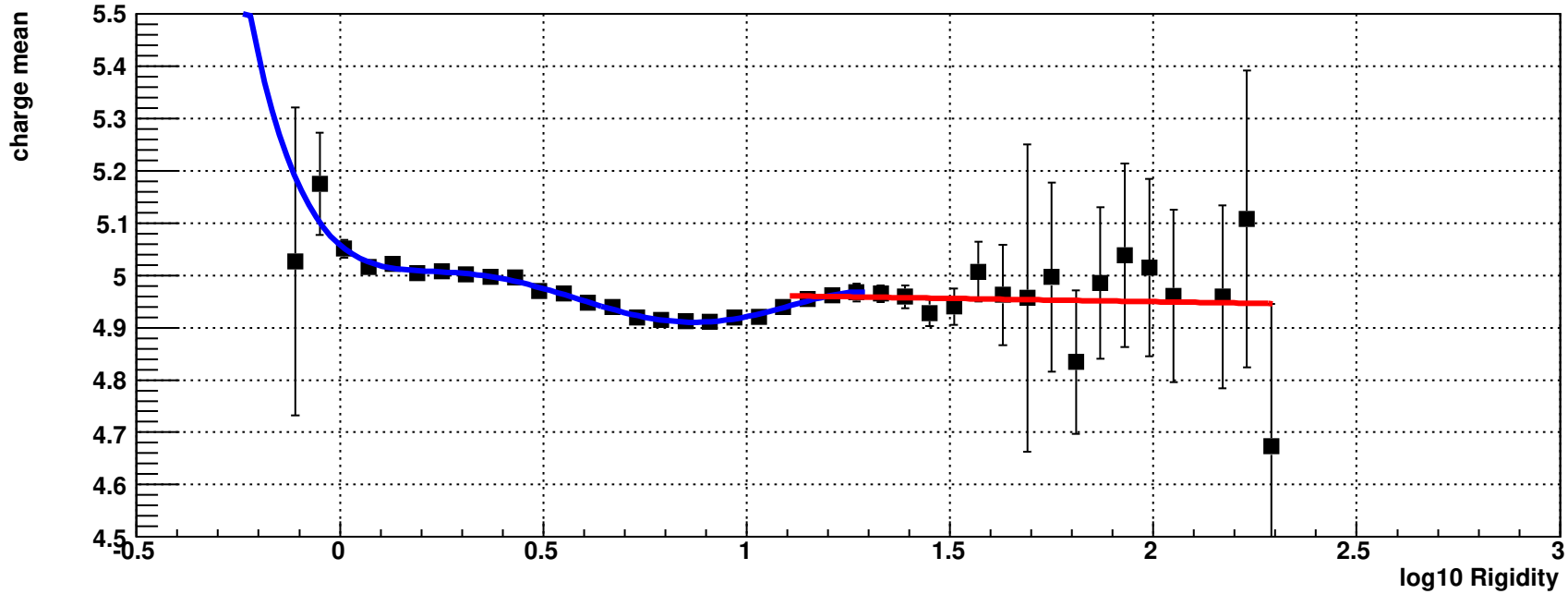
1_rig_charge_pre32_2 Beryllium



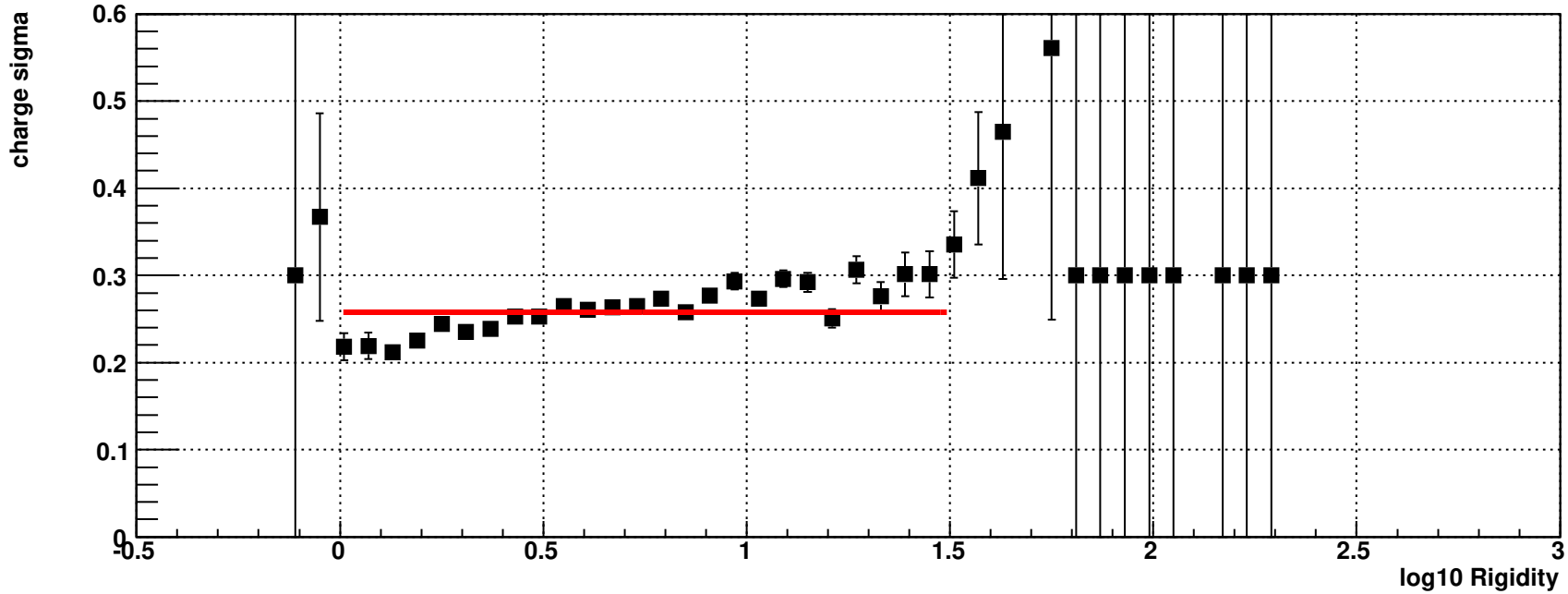

1_rig_charge_pre32_3
1_rig_charge_pre32_3
Entries 6729
Entries: 40036
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



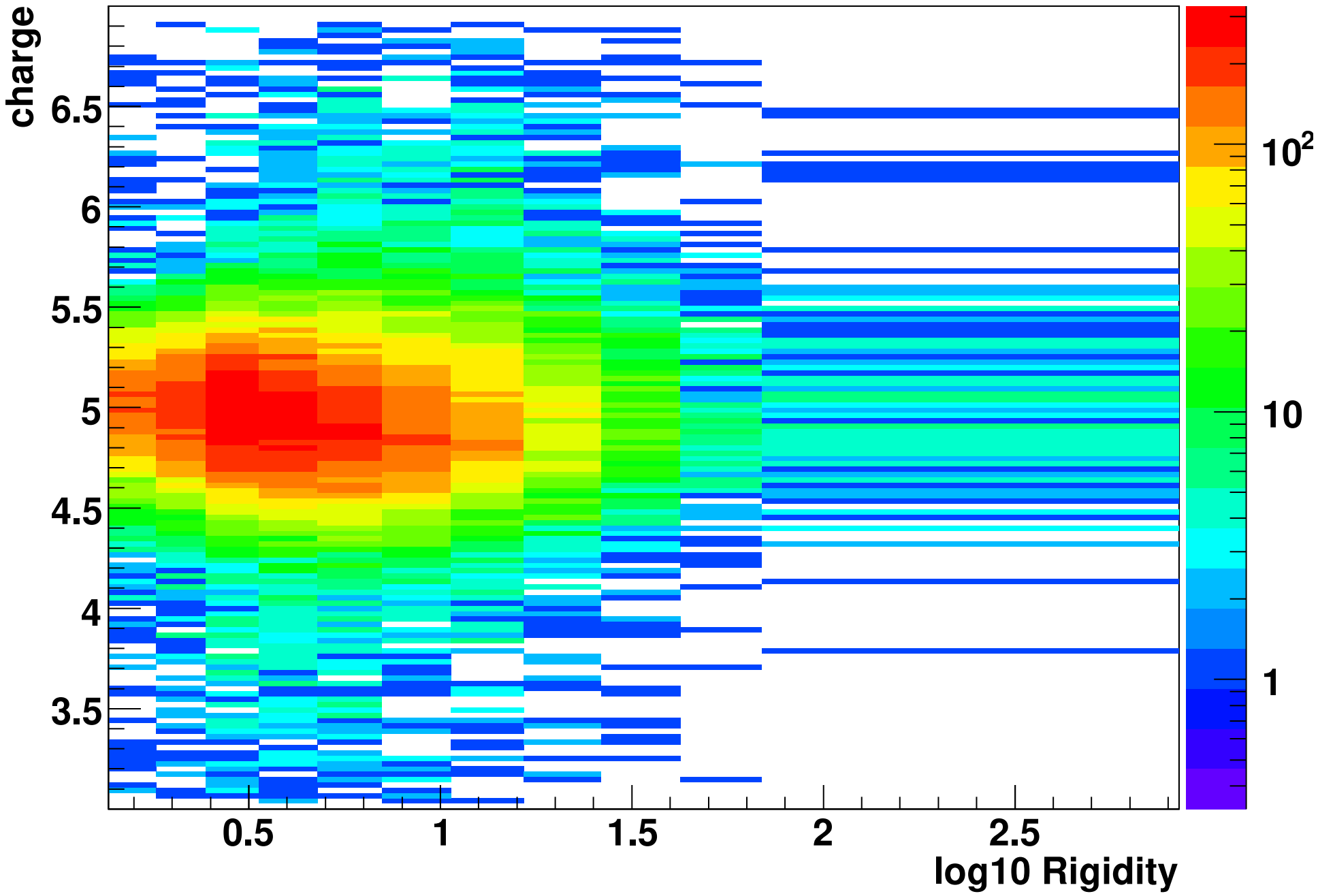
1_rig_charge_pre32_3 Boron



1_rig_charge_pre32_3 Boron



1_rig_charge_pre32_3



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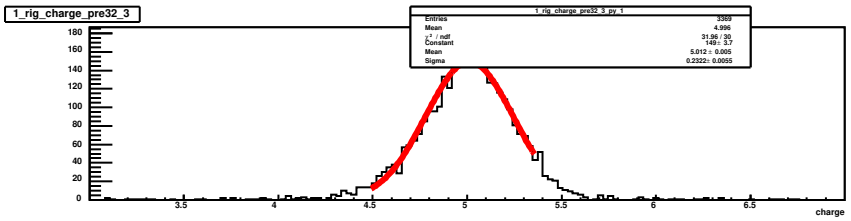

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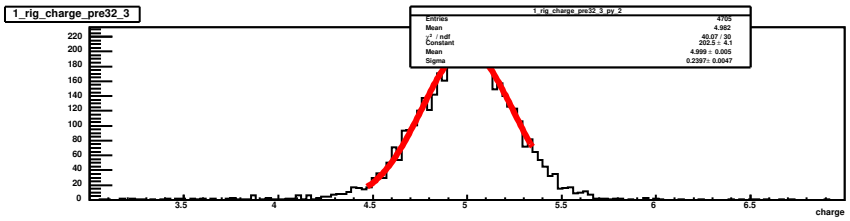
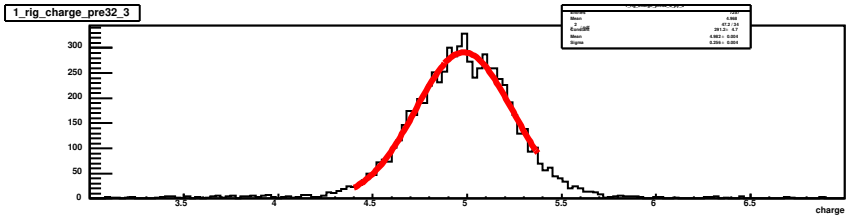
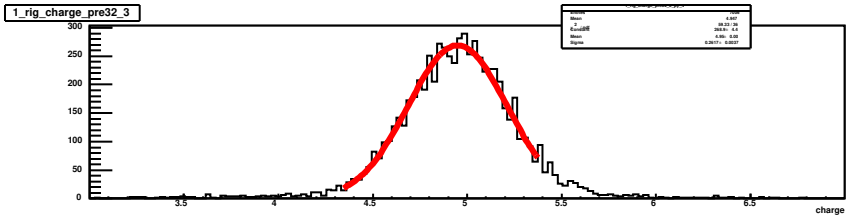


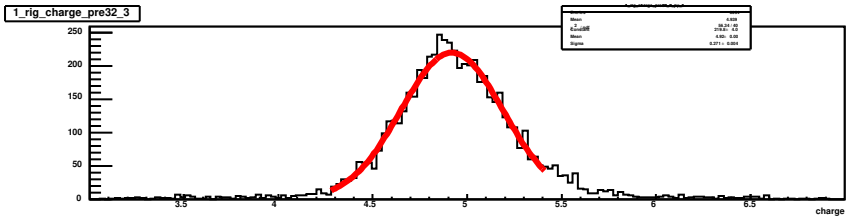
1_rig_charge_pre32_3



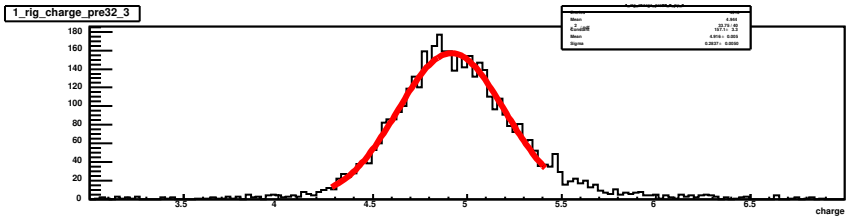
1_rig_charge_pre32_3



1_rig_charge_pre32_3



1_rig_charge_pre32_3



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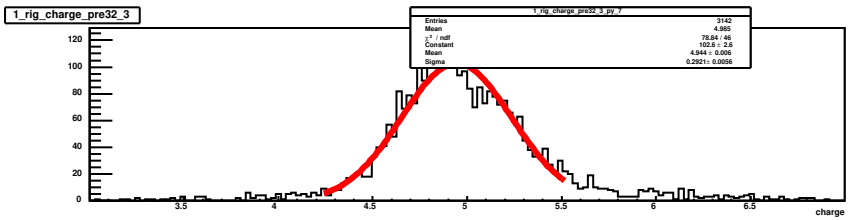

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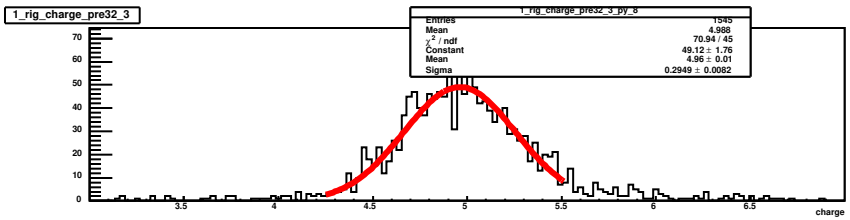
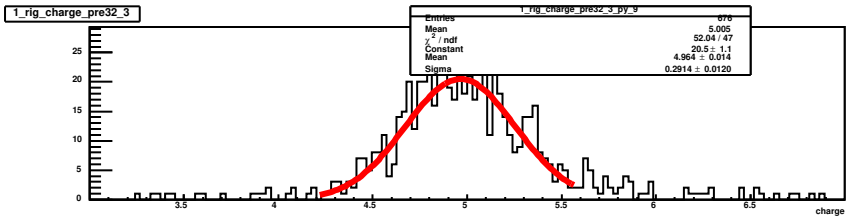
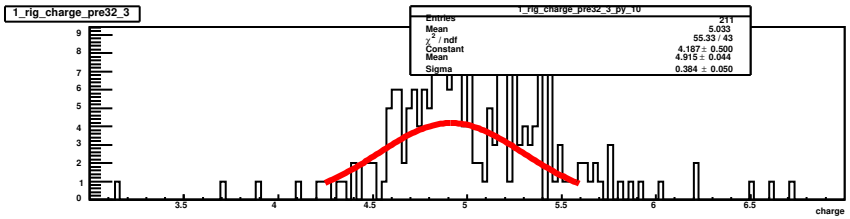


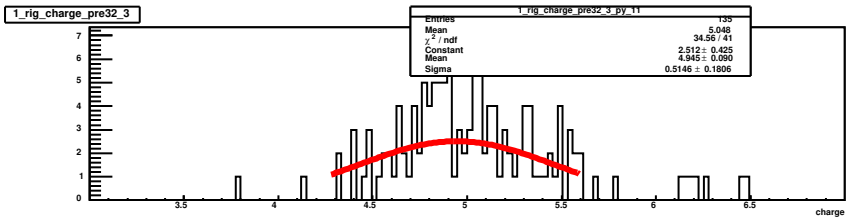
1_rig_charge_pre32_3



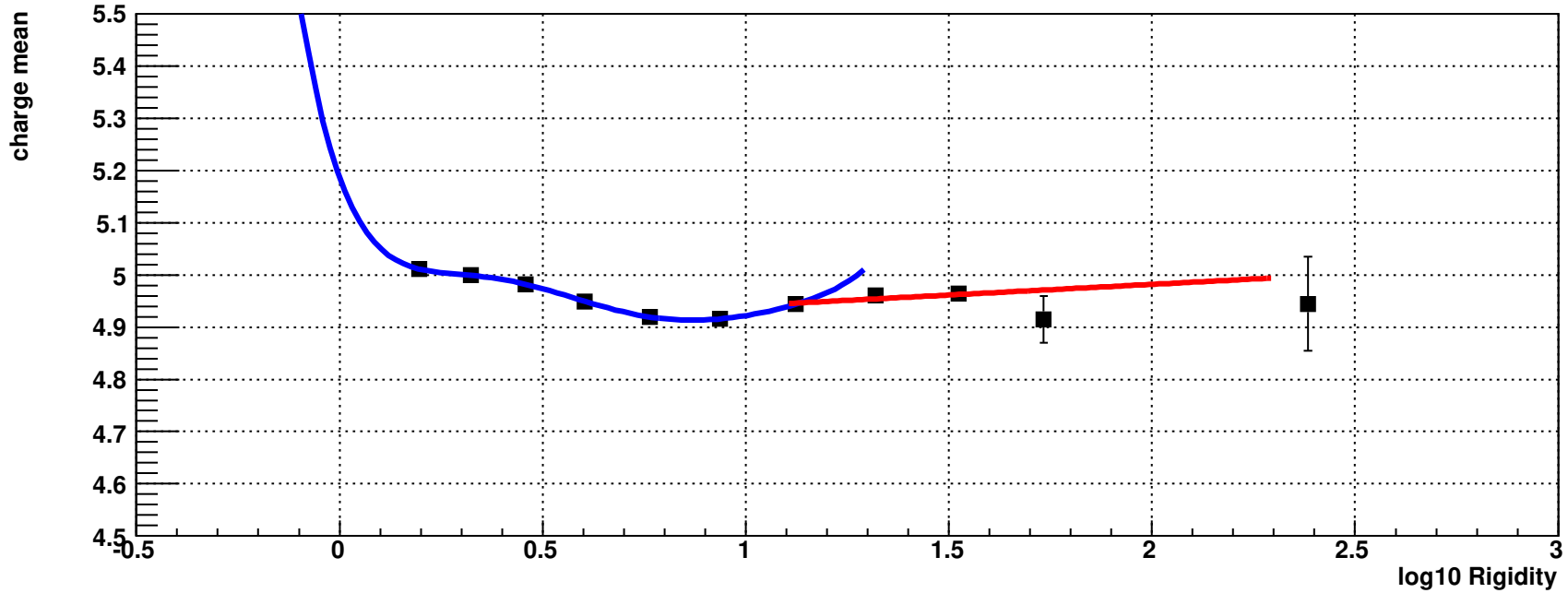
1_rig_charge_pre32_3



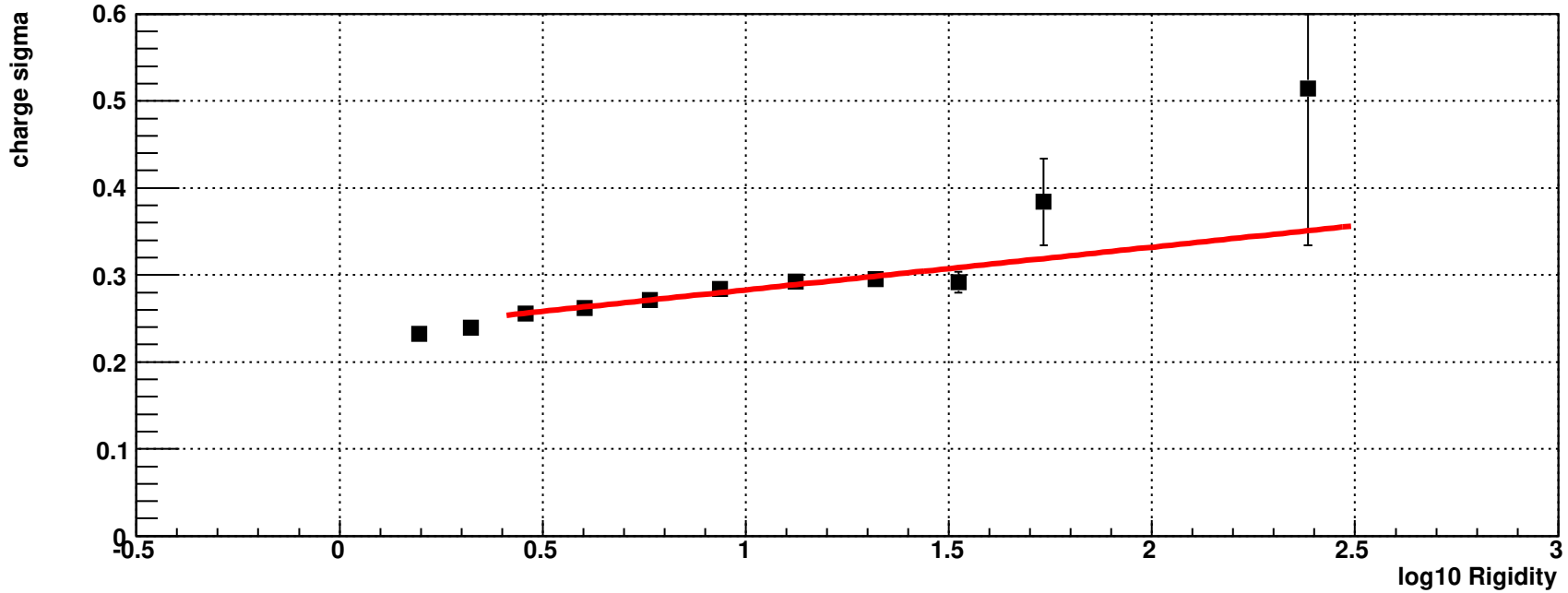
1_rig_charge_pre32_3

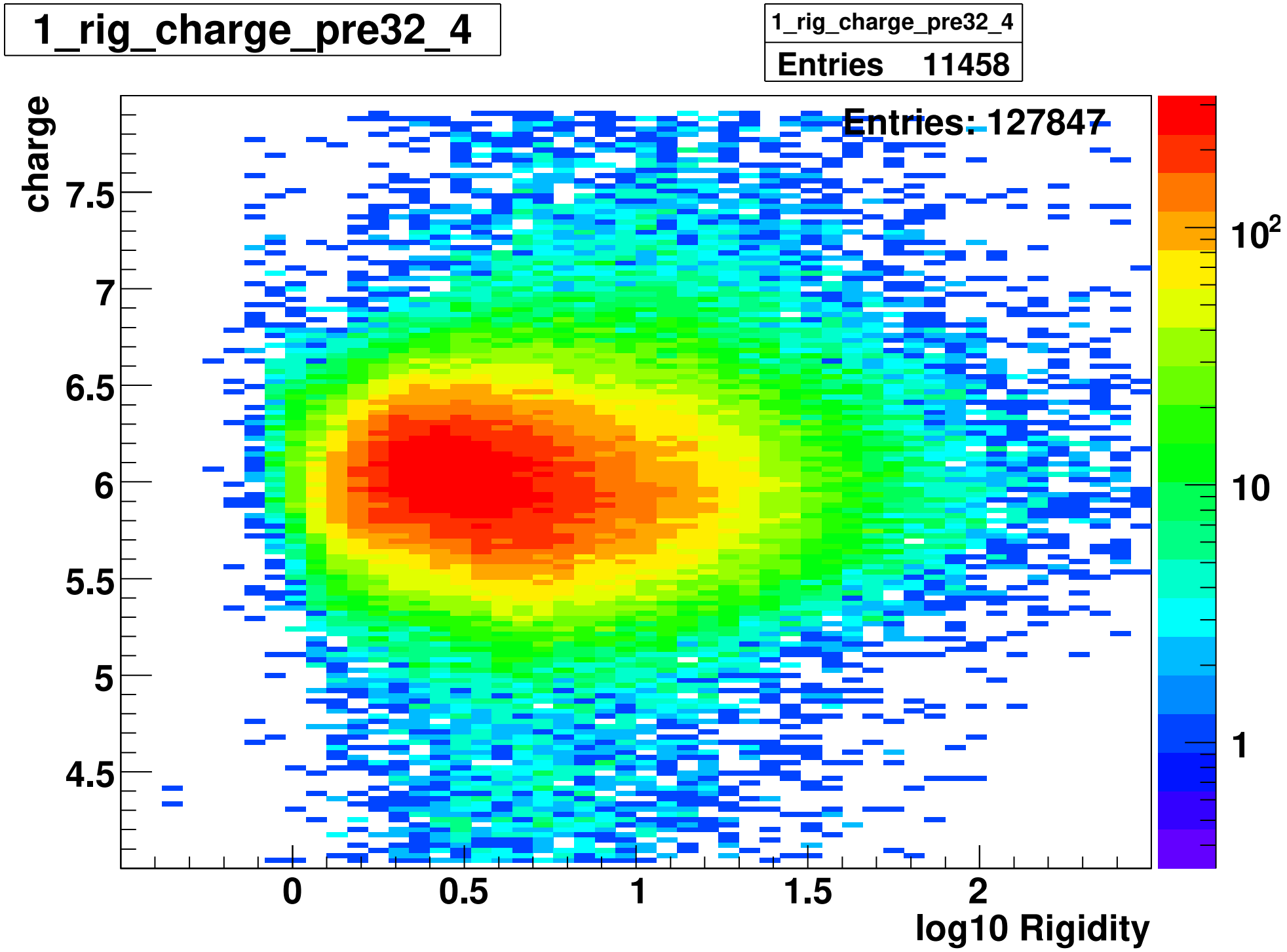


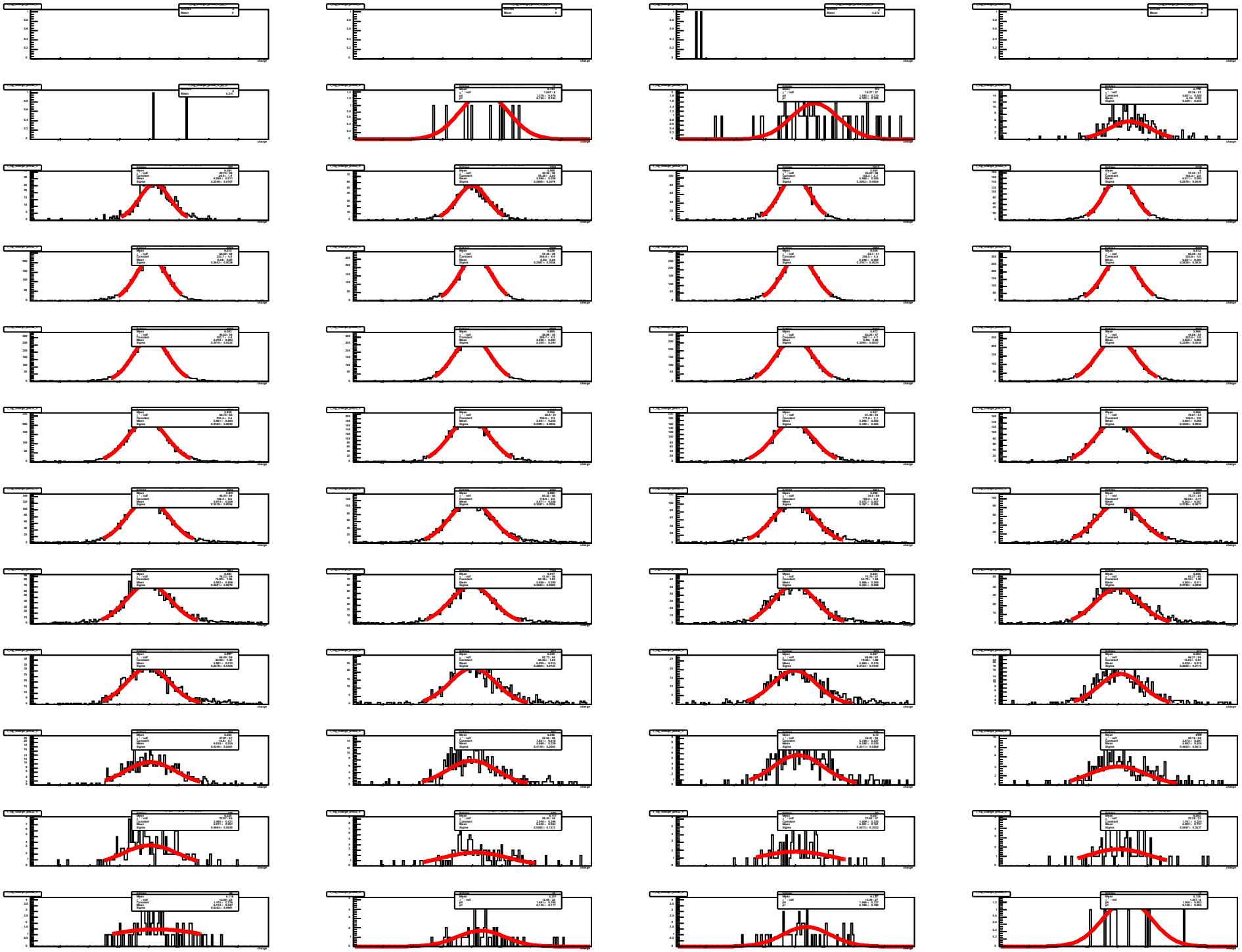
1_rig_charge_pre32_3 Boron



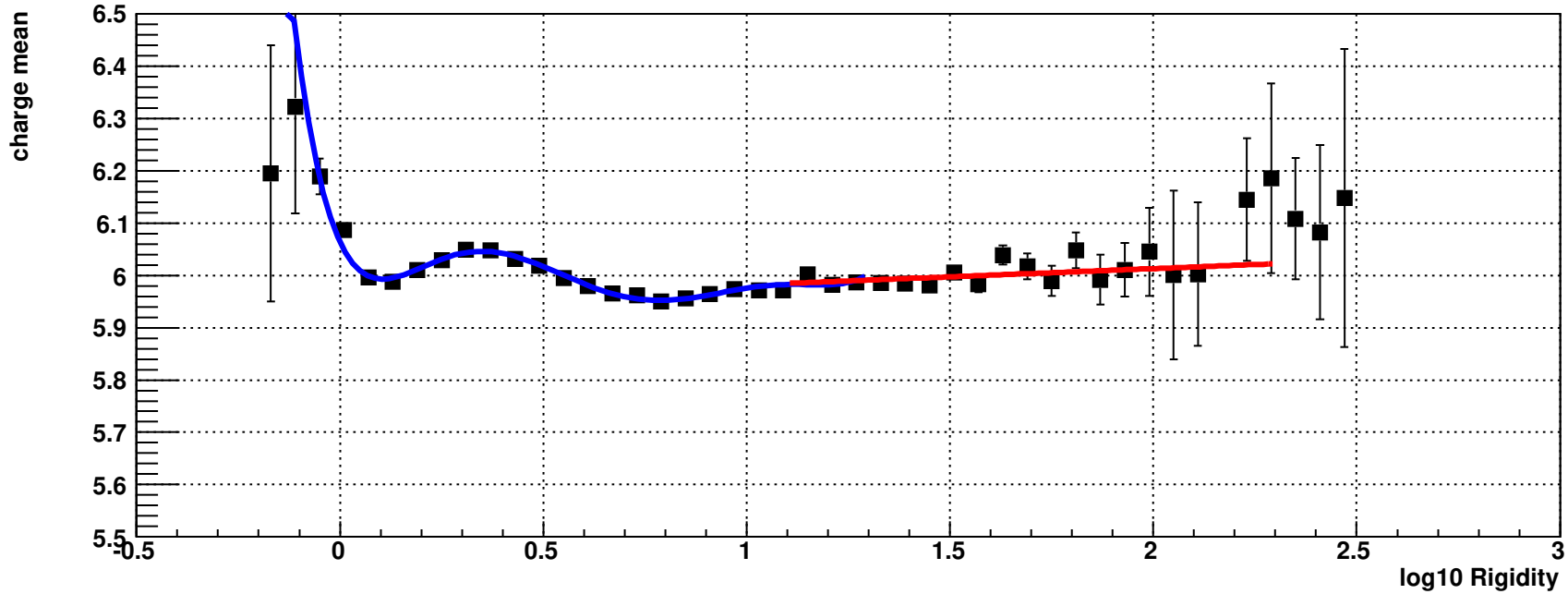
1_rig_charge_pre32_3 Boron



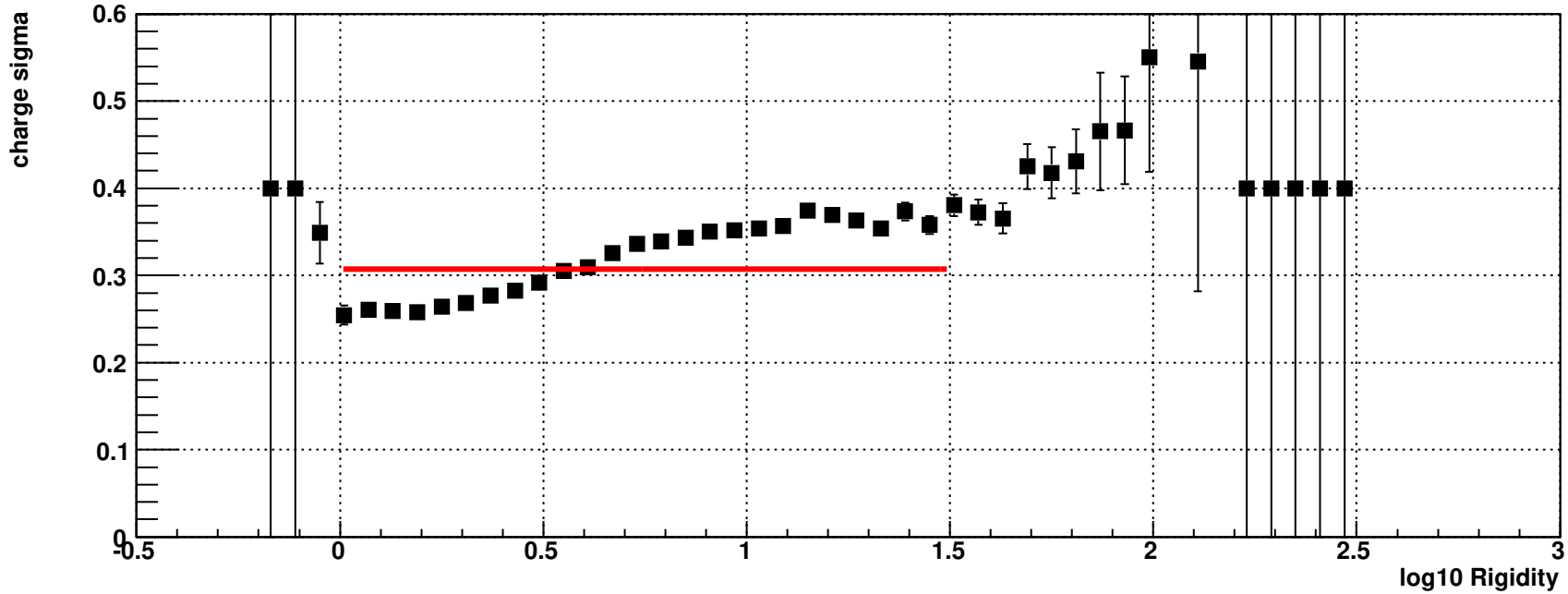

1_rig_charge_pre32_4
1_rig_charge_pre32_4
Entries 11458
Entries: 127847
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



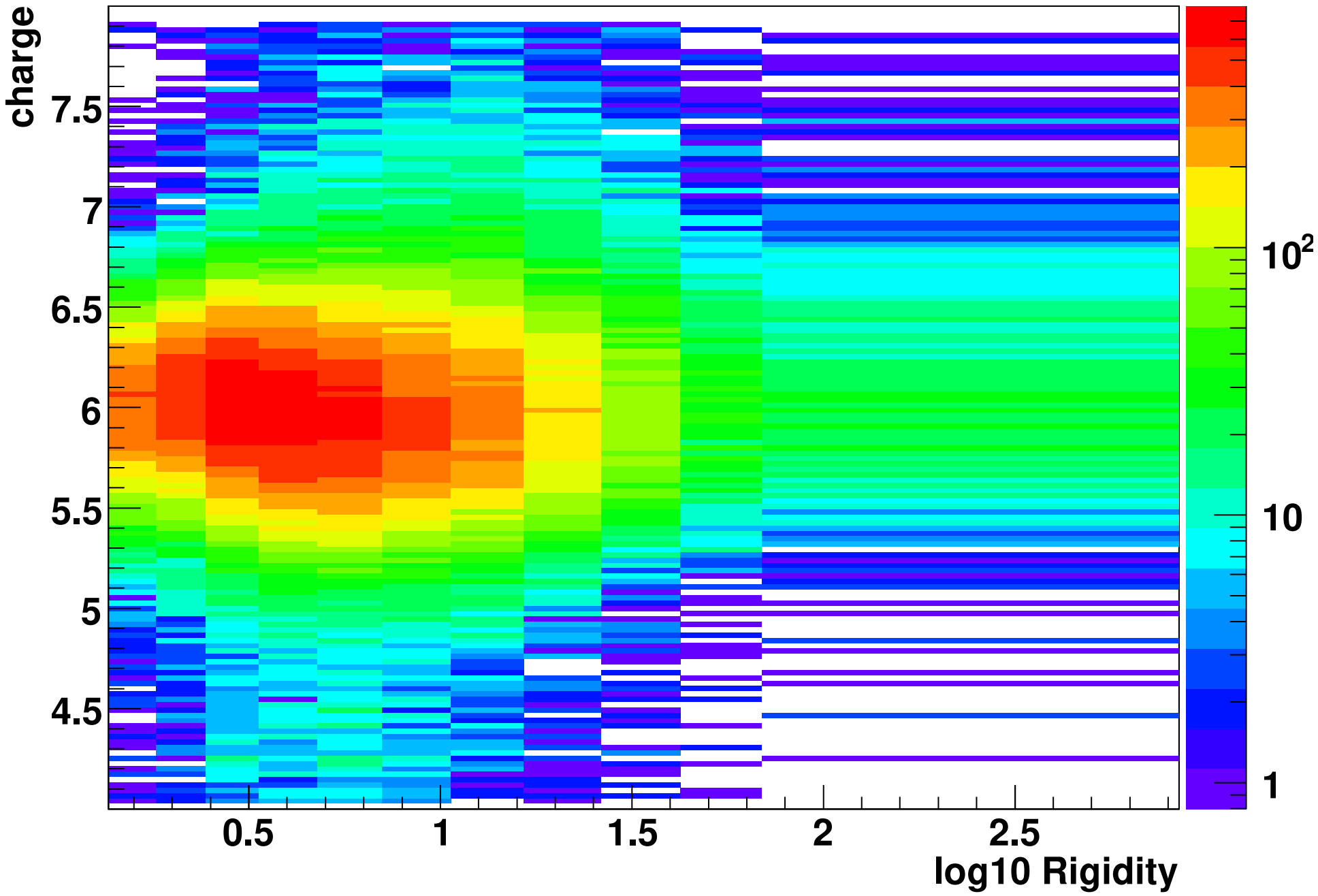
1_rig_charge_pre32_4 Carbon

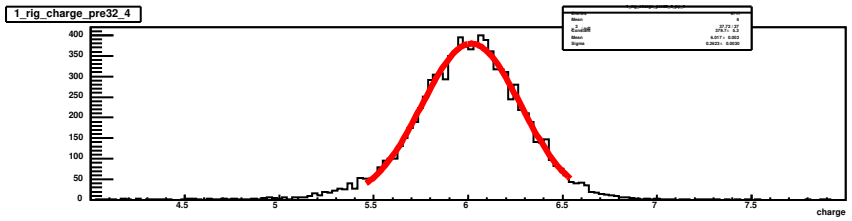


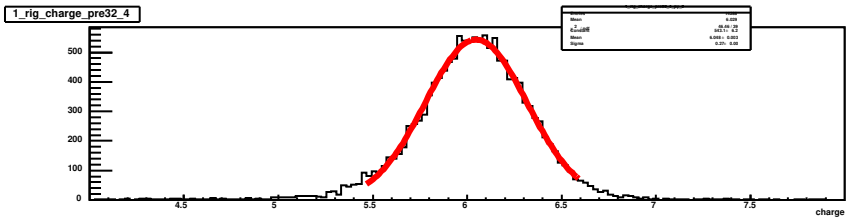
1_rig_charge_pre32_4 Carbon

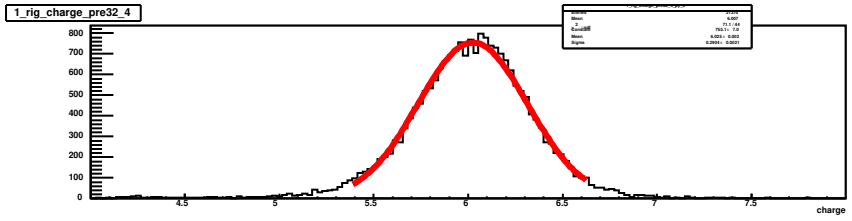


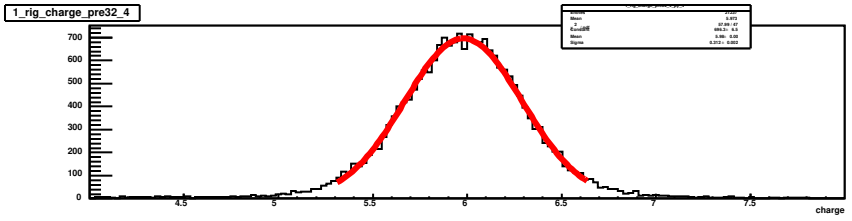
1_rig_charge_pre32_4

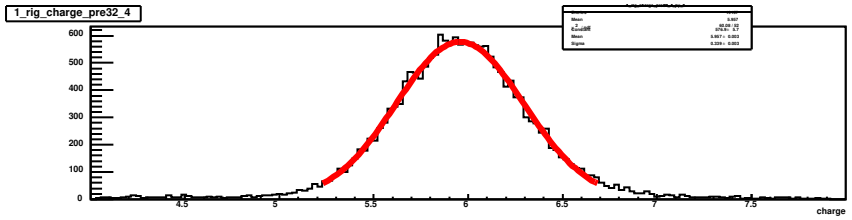



1_rig_charge_pre32_4
charge


1_rig_charge_pre32_4
charge


1_rig_charge_pre32_4
charge


1_rig_charge_pre32_4
charge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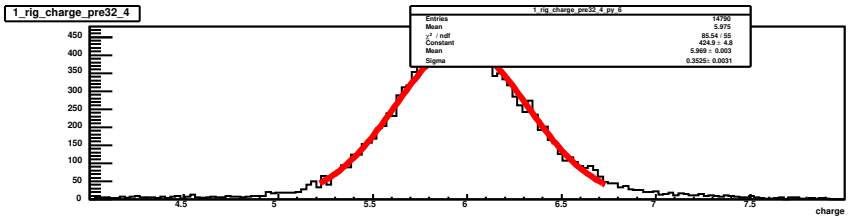
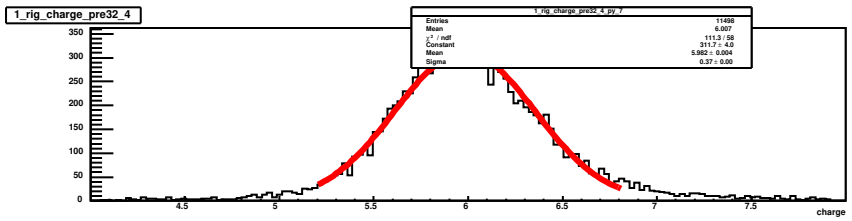
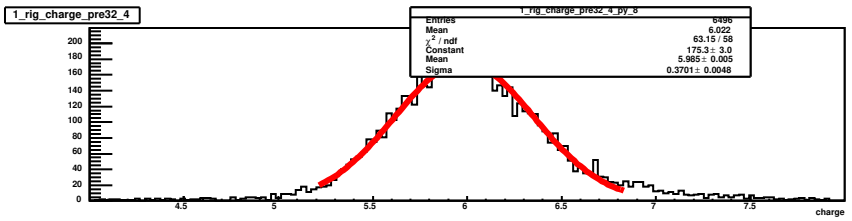
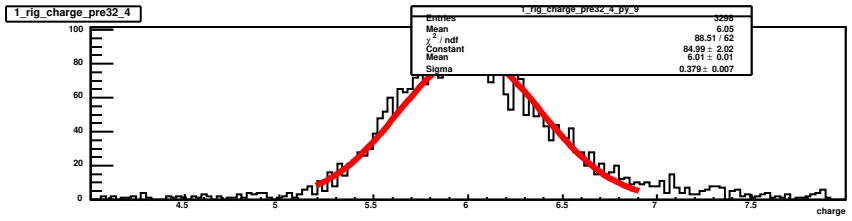
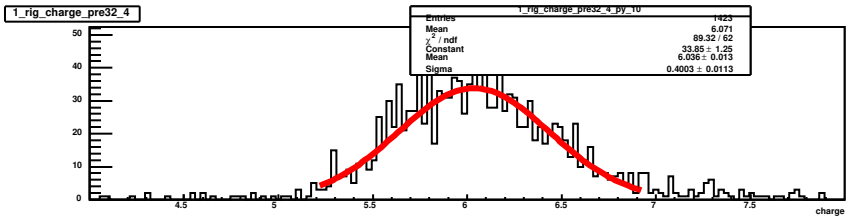
charge

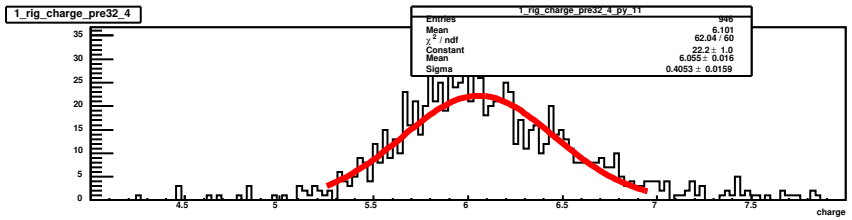

1_rig_charge_pre32_4
1_rig_charge_pre32_4_py_6
Entries 14790
Mean 5.975
χ² / ndf 85.54 / 55
Constant 424.9 ± 4.8
Mean 5.969 ± 0.003
Sigma 0.3525 ± 0.0031
charge


1_rig_charge_pre32_4
1_rig_charge_pre32_4_py_7
Entries 11498
Mean 6.007
χ² / ndf 111.3 / 58
Constant 311.7 ± 4.0
Mean 5.982 ± 0.004
Sigma 0.37 ± 0.00
charge

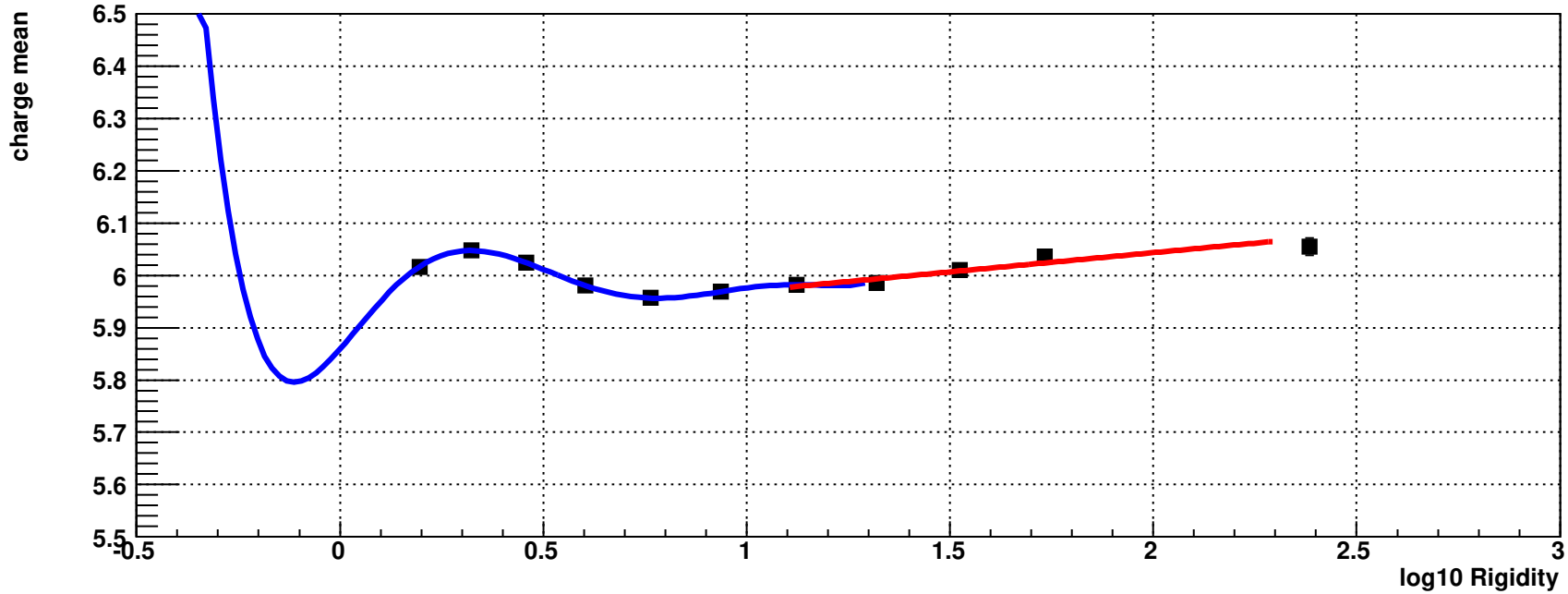

1_rig_charge_pre32_4
1_rig_charge_pre32_4_py_8
Entries 6496
Mean 6.022
χ² / ndf 63.15 / 58
Constant 175.3 ± 3.0
Mean 5.985 ± 0.005
Sigma 0.3701 ± 0.0048
charge


1_rig_charge_pre32_4
1_rig_charge_pre32_4_py_9
Entries 3296
Mean 6.05
χ² / ndf 88.51 / 62
Constant 84.99 ± 2.02
Mean 6.01 ± 0.01
Sigma 0.379 ± 0.007
charge

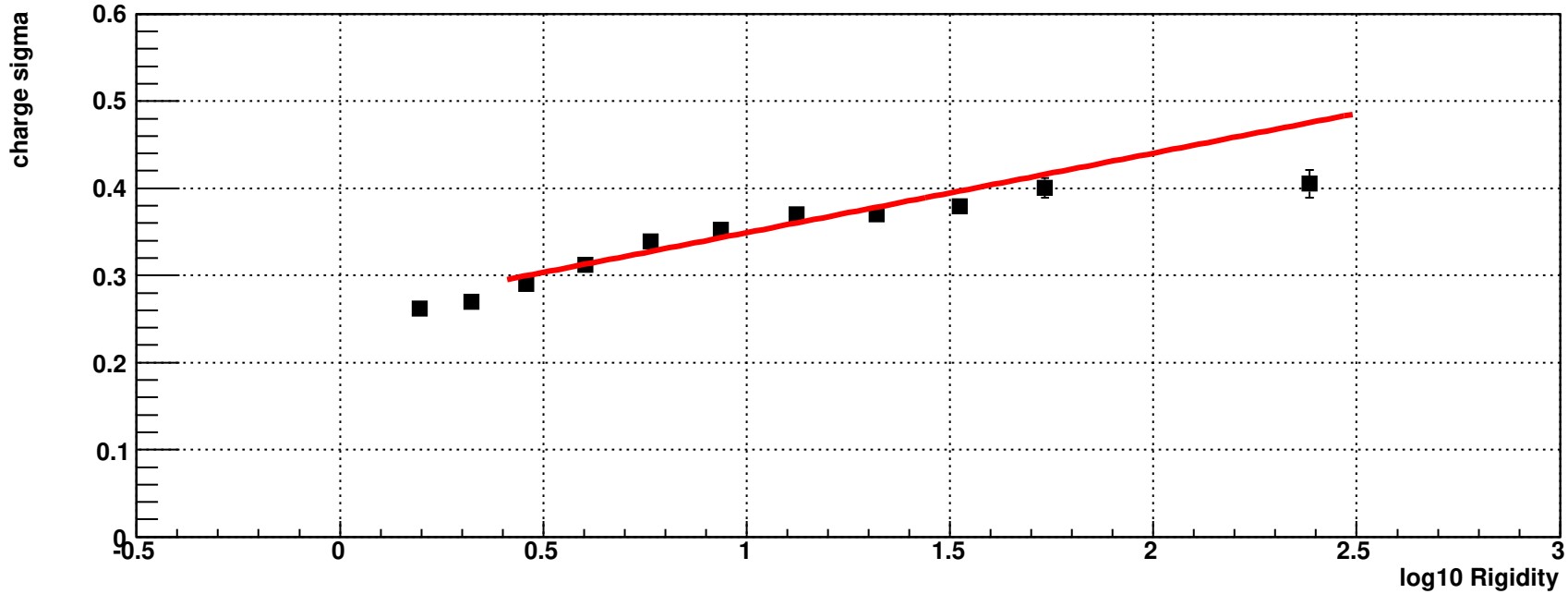

1_rig_charge_pre32_4
1_rig_charge_pre32_4_py_10
Entries 1423
Mean 6.071
χ² / ndf 89.32 / 62
Constant 33.85 ± 1.25
Mean 6.036 ± 0.013
Sigma 0.4003 ± 0.0113
charge

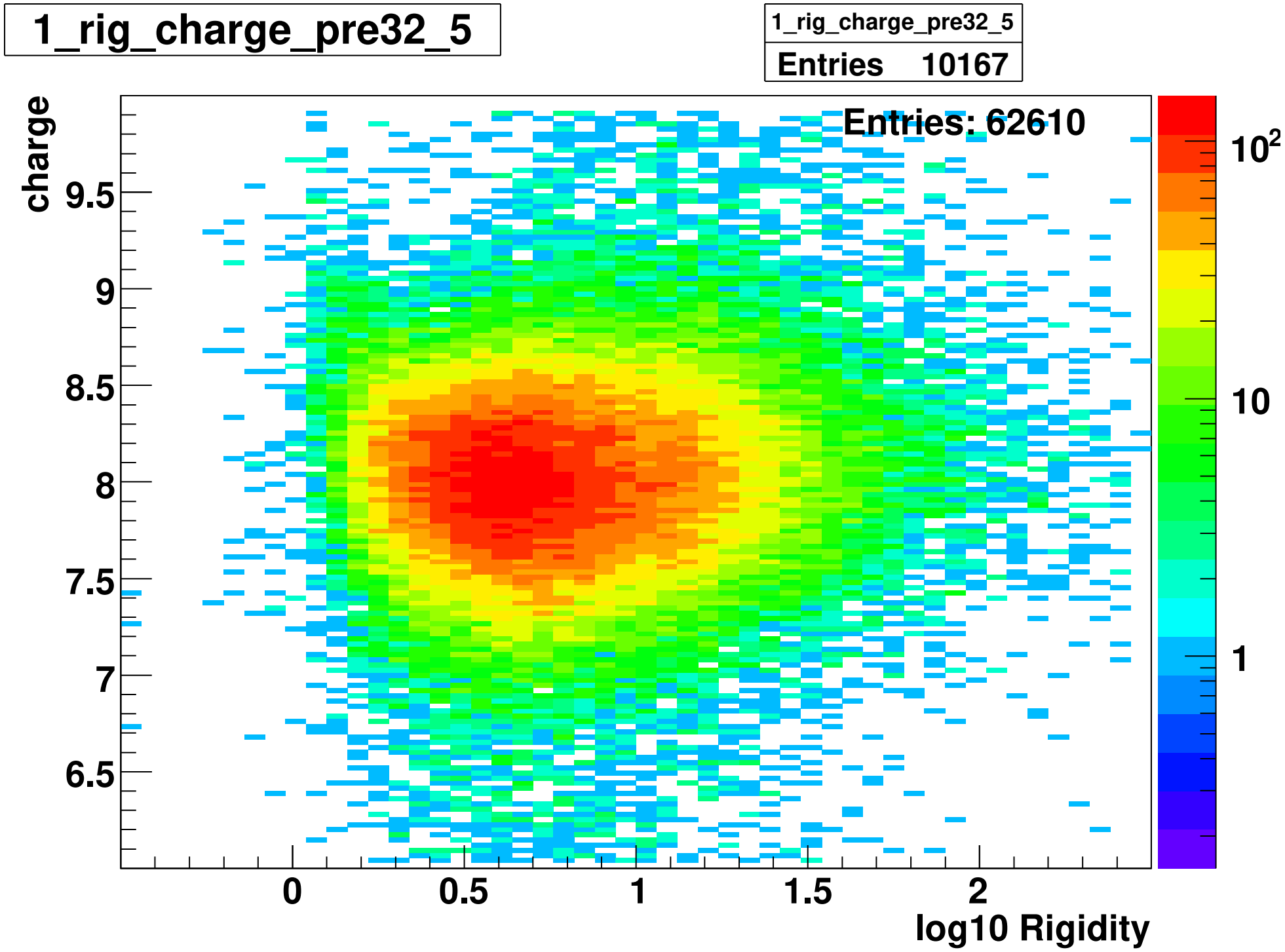

1_rig_charge_pre32_4
1_rig_charge_pre32_4_py_11
Entries 946
Mean 6.101
χ² / ndf 62.04 / 60
Constant 22.2 ± 1.0
Mean 6.055 ± 0.016
Sigma 0.4053 ± 0.0159
charge

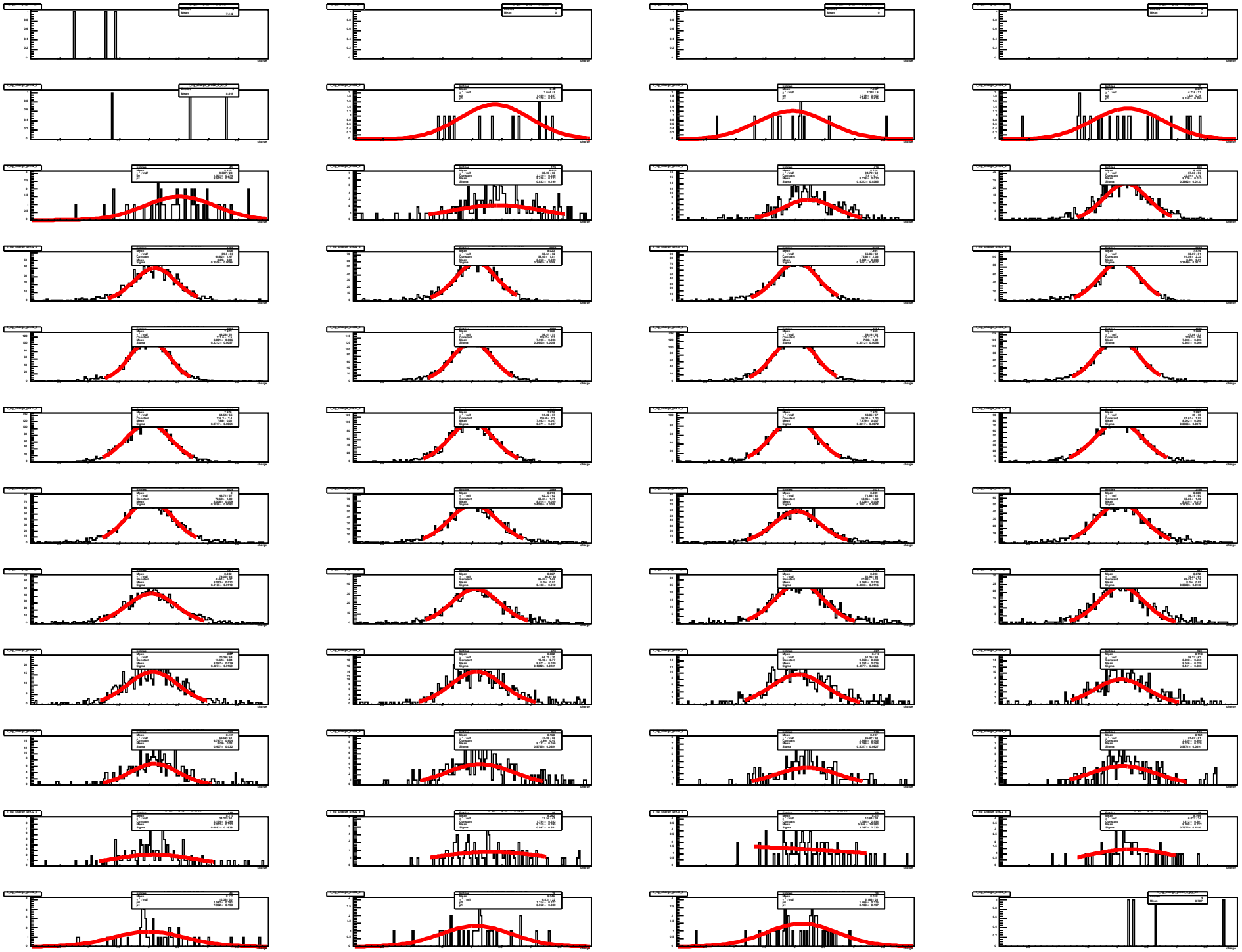
1_rig_charge_pre32_4 Carbon



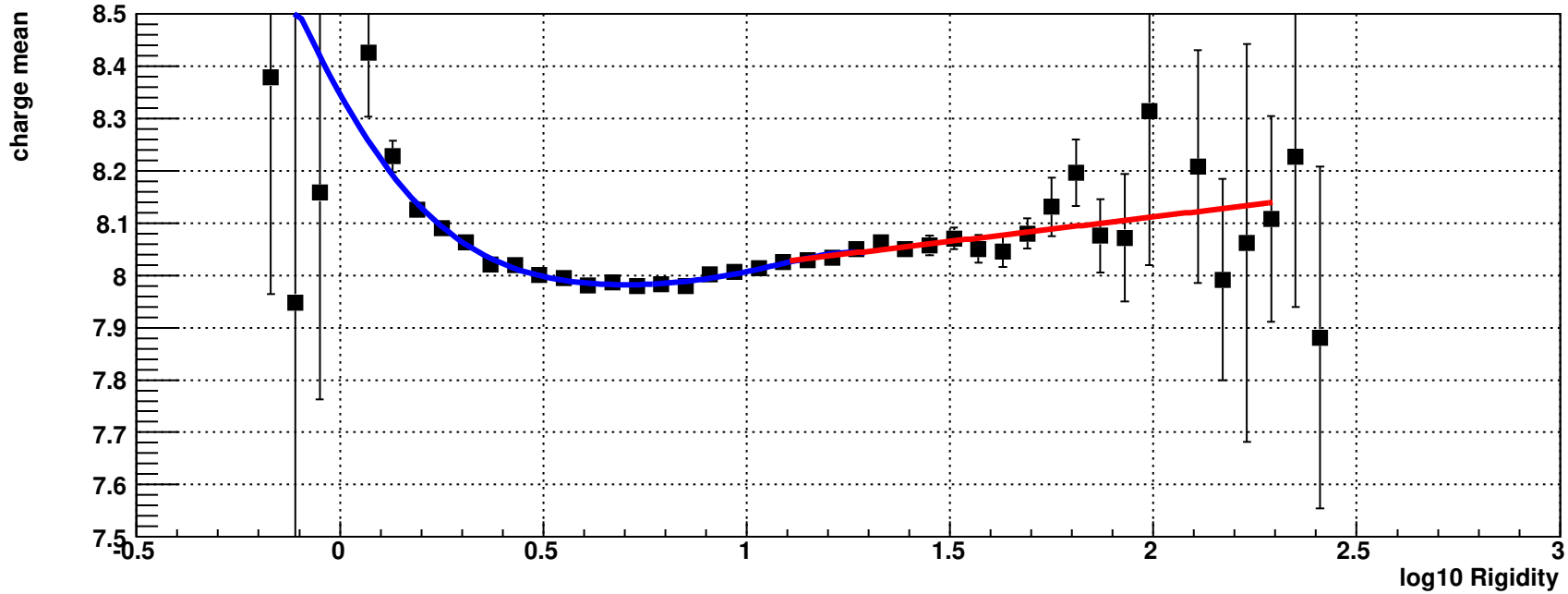
1_rig_charge_pre32_4 Carbon



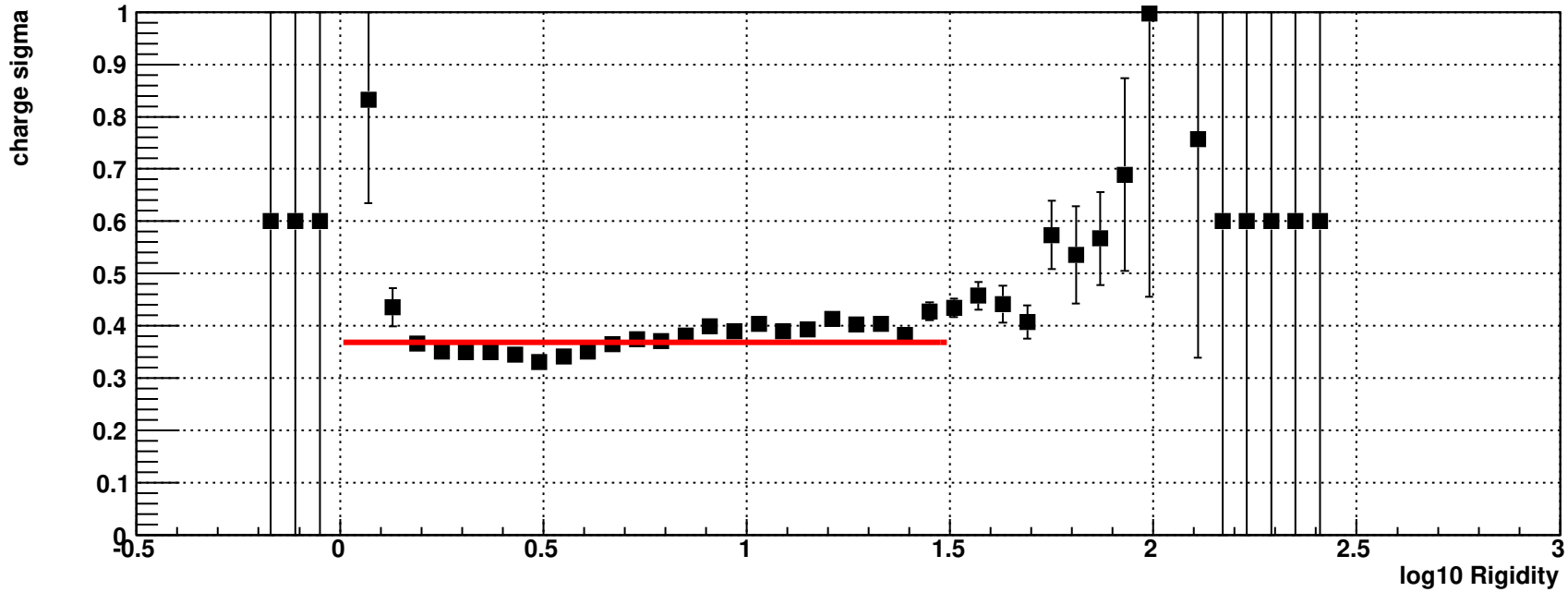

1_rig_charge_pre32_5
1_rig_charge_pre32_5
Entries 10167
Entries: 62610
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



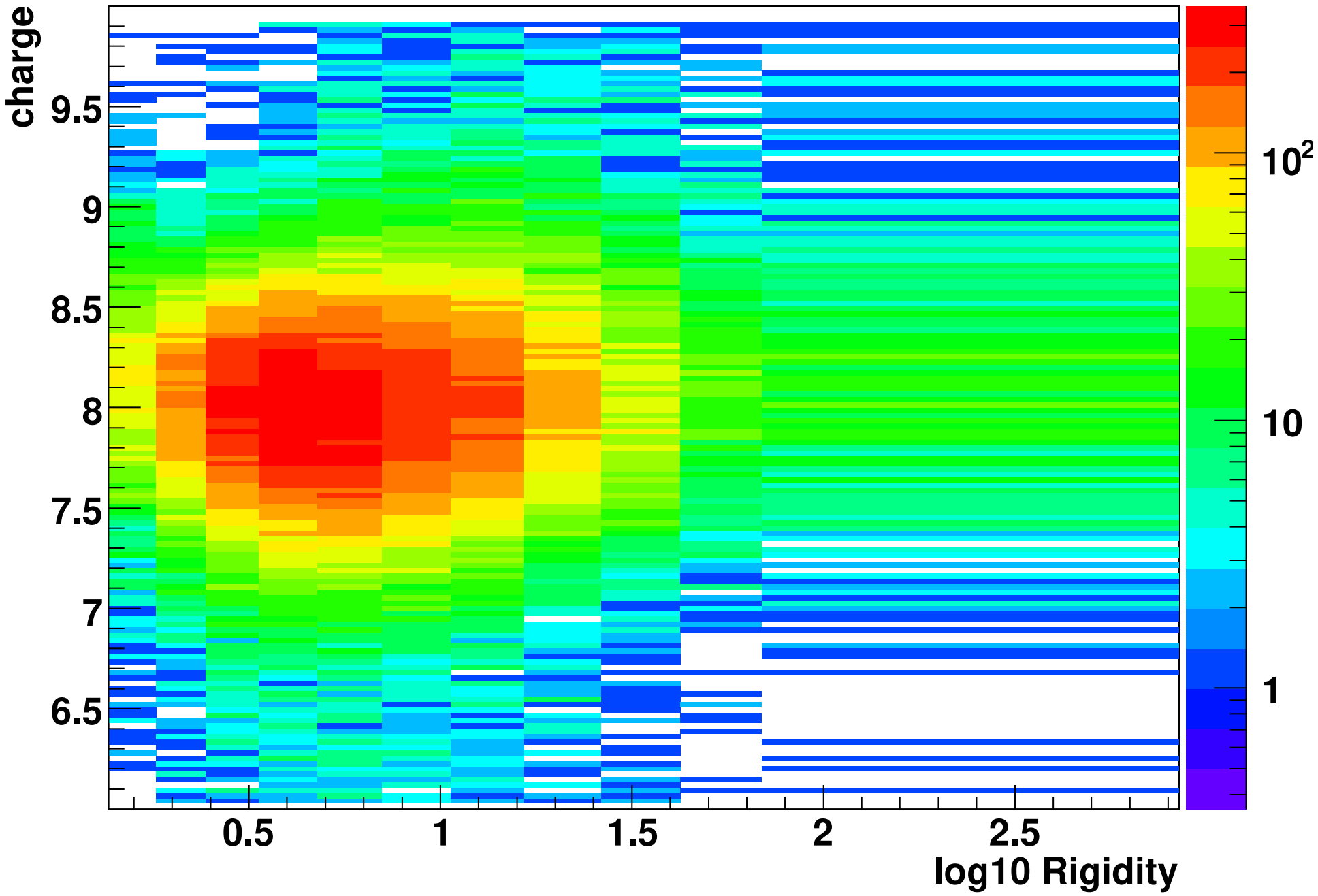
1_rig_charge_pre32_5_py_50

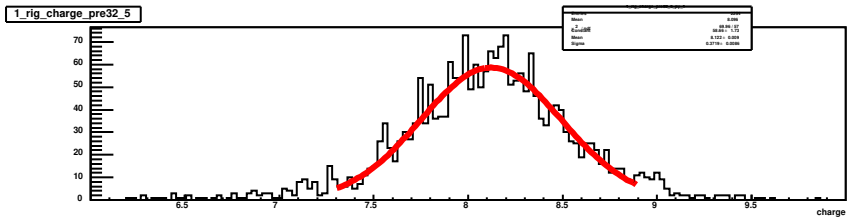


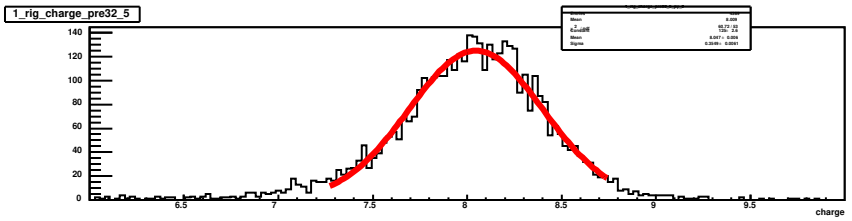
1_rig_charge_pre32_5_py_50

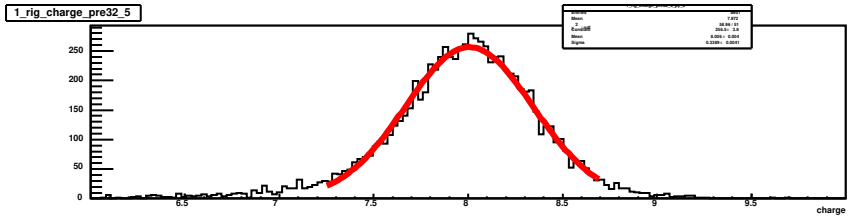


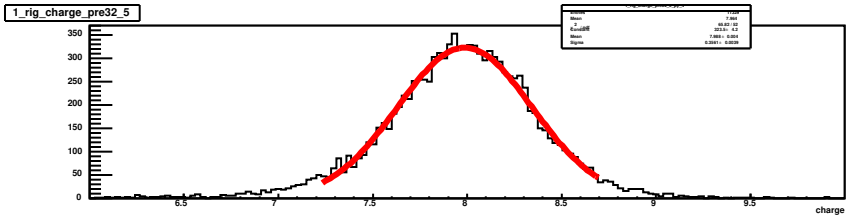
1_rig_charge_pre32_5

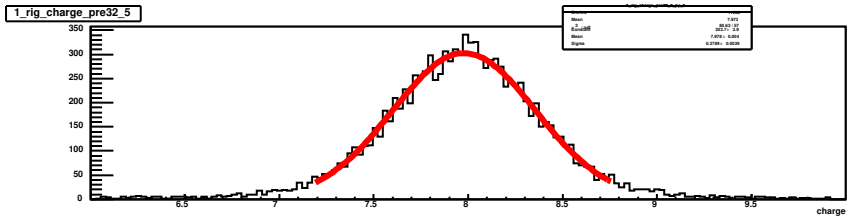


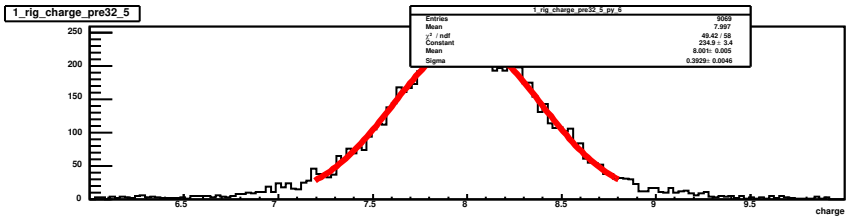

1_rig_charge_pre32_5
charge

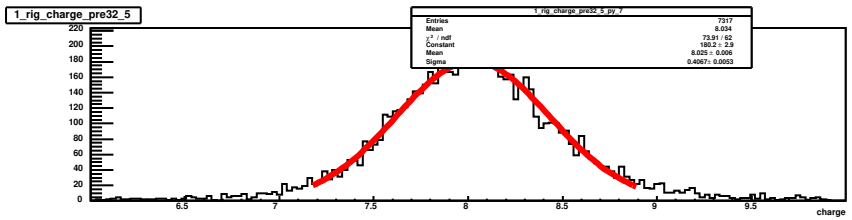

1_rig_charge_pre32_5
charge

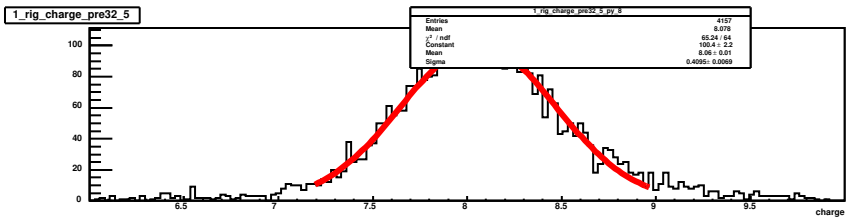

1_rig_charge_pre32_5
charge

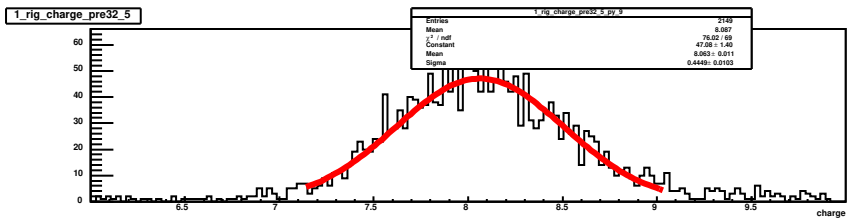

1_rig_charge_pre32_5
charge

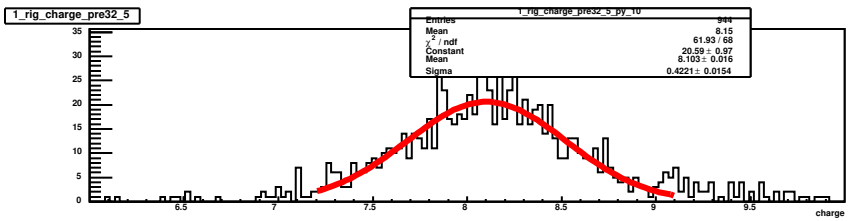

1_rig_charge_pre32_5
charge

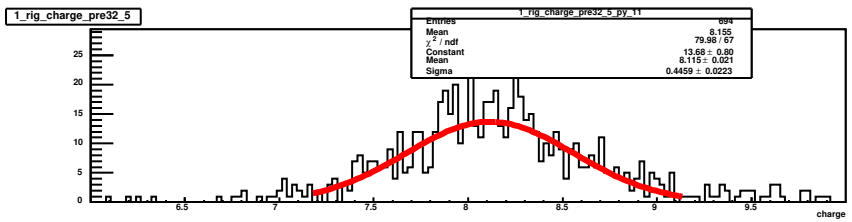

1_rig_charge_pre32_5
1_rig_charge_pre32_5_py_6
Entries 9069
Mean 7.997
χ² / ndf 49.42 / 58
Constant 234.9 ± 3.4
Mean 8.001 ± 0.005
Sigma 0.3929 ± 0.0046
charge


1_rig_charge_pre32_5
1_rig_charge_pre32_5_py_7
Entries 7317
Mean 8.034
χ² / ndf 73.91 / 62
Constant 180.2 ± 2.9
Mean 8.025 ± 0.006
Sigma 0.4067 ± 0.0053
charge

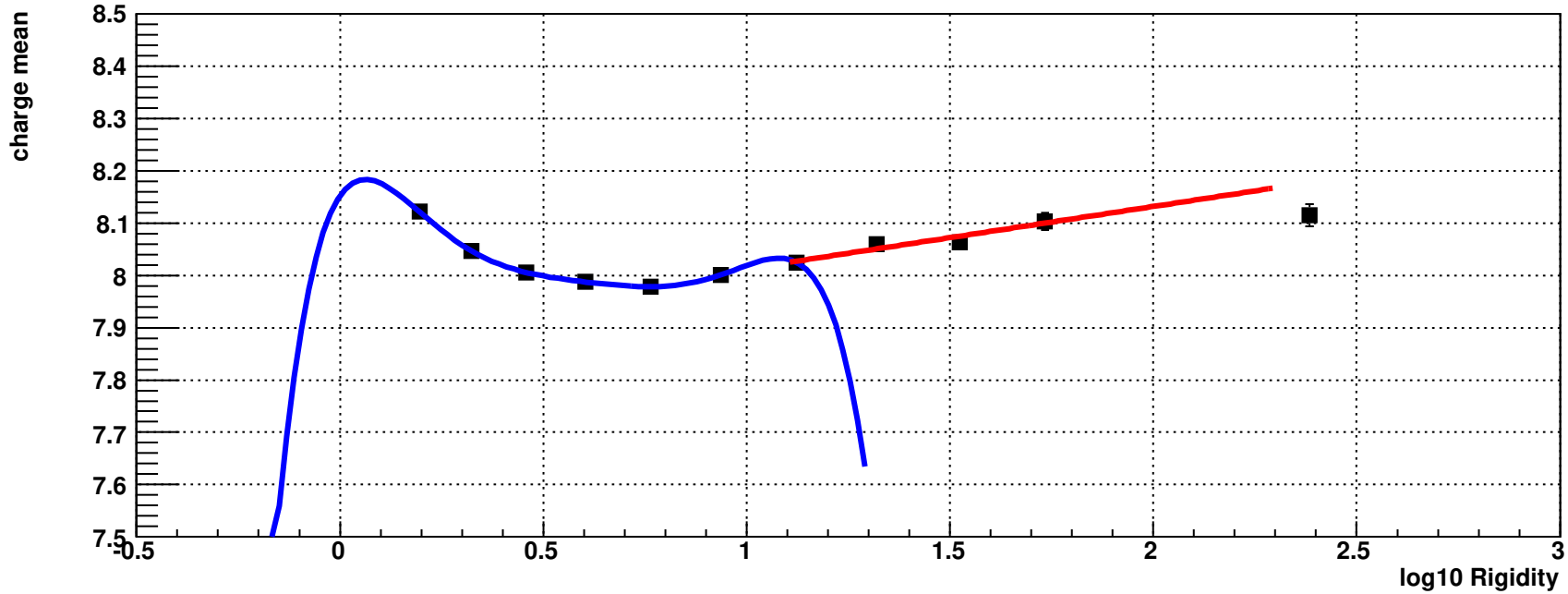

1_rig_charge_pre32_5
1_rig_charge_pre32_5_py_8
Entries 4157
Mean 8.078
χ² / ndf 65.24 / 64
Constant 100.4 ± 2.2
Mean 8.06 ± 0.01
Sigma 0.4095 ± 0.0069
charge


1_rig_charge_pre32_5
1_rig_charge_pre32_5_py_9
Entries 2149
Mean 8.087
χ² / ndf 76.02 / 69
Constant 47.08 ± 1.40
Mean 8.063 ± 0.011
Sigma 0.4449 ± 0.0103
charge

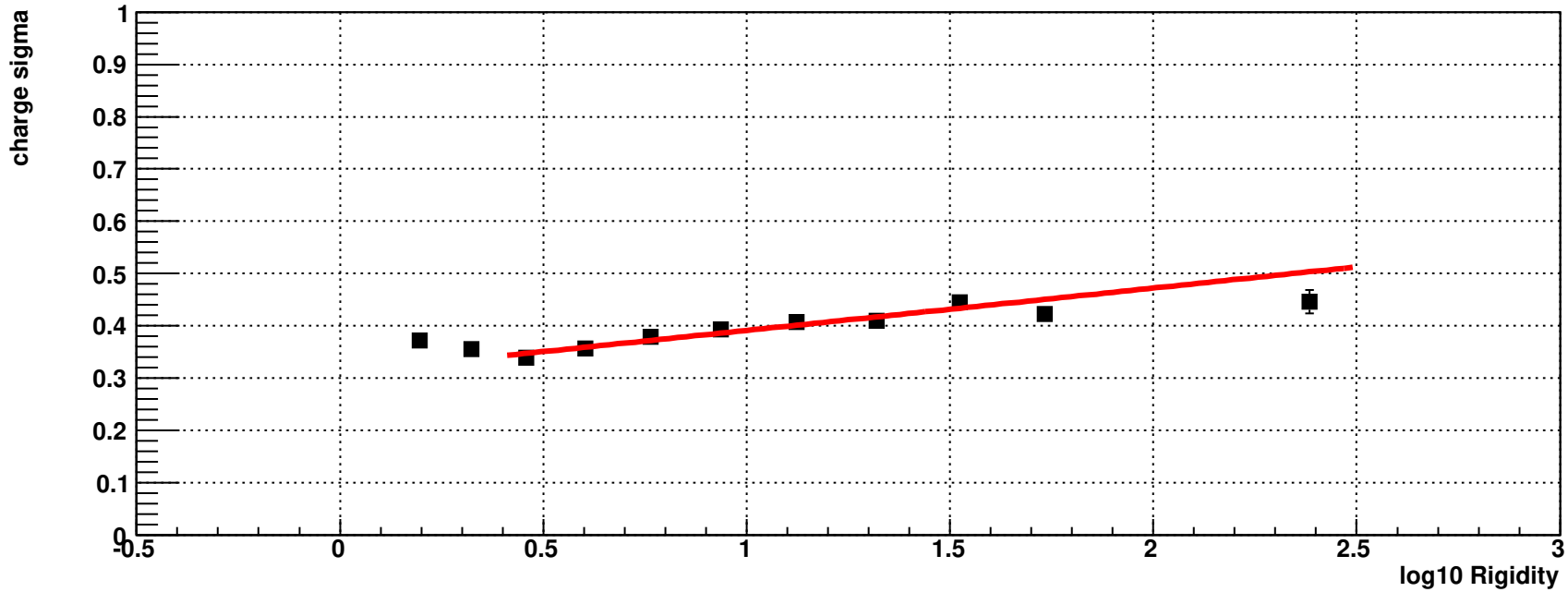

1_rig_charge_pre32_5
1_rig_charge_pre32_5_py_10
Entries 944
Mean 8.15
χ² / ndf 61.93 / 68
Constant 20.59 ± 0.97
Mean 8.103 ± 0.016
Sigma 0.4221 ± 0.0154
charge

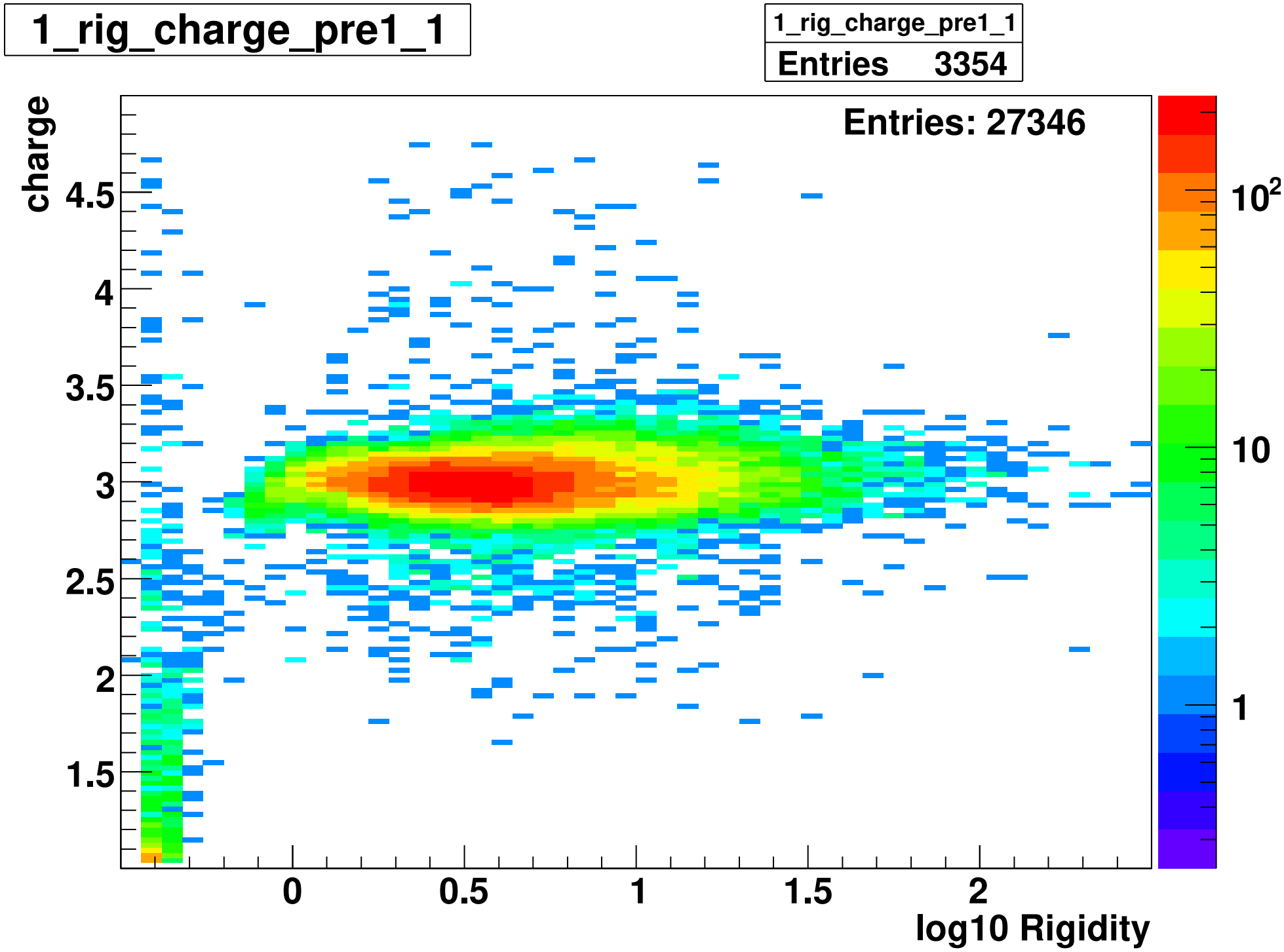

1_rig_charge_pre32_5
1_rig_charge_pre32_5_py_11
Entries 694
Mean 8.155
χ² / ndf 79.98 / 67
Constant 13.68 ± 0.80
Mean 8.115 ± 0.021
Sigma 0.4459 ± 0.0223
charge

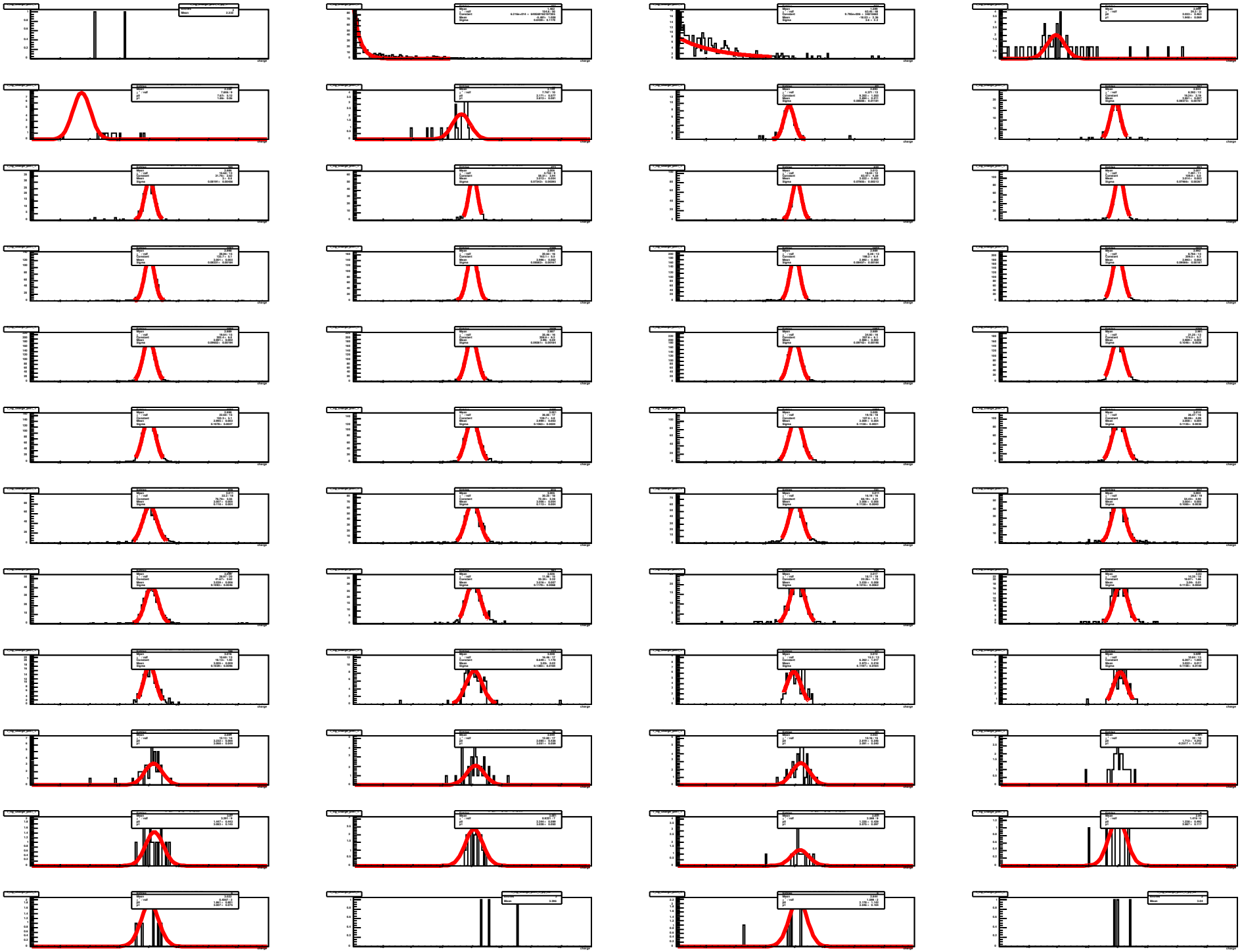
1_rig_charge_pre32_5_py_11



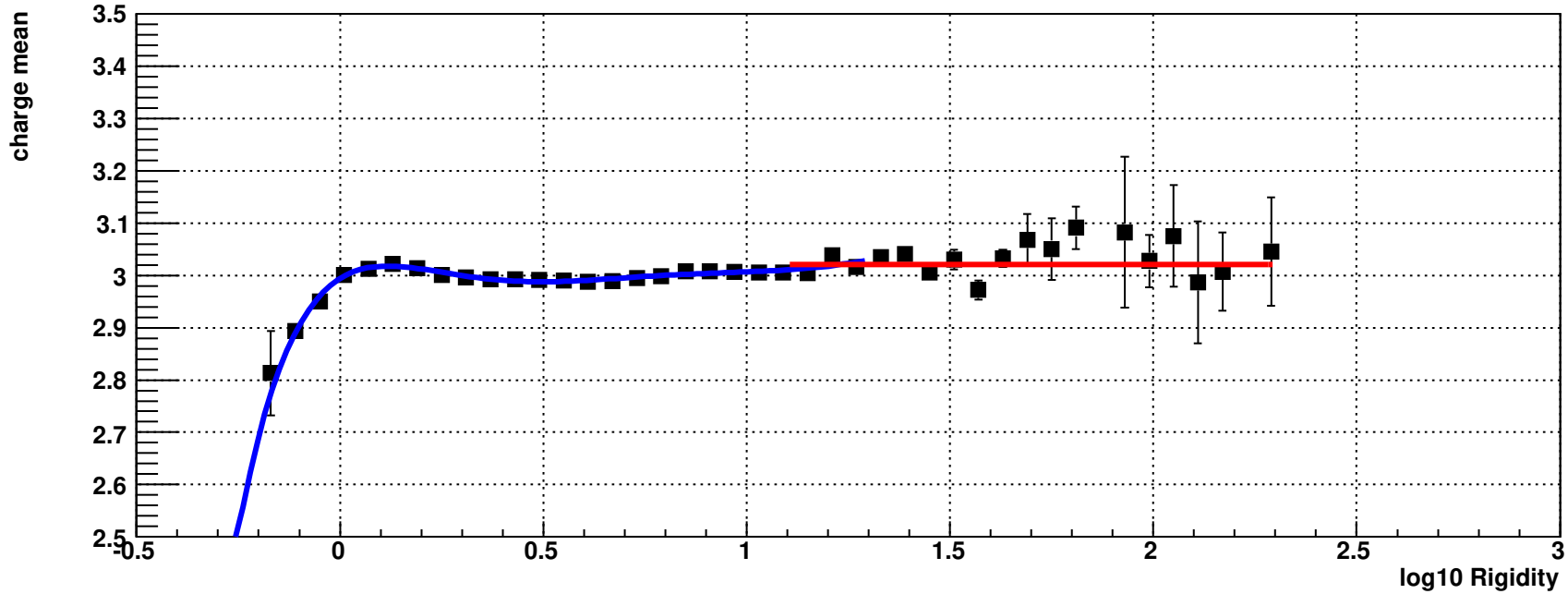
1_rig_charge_pre32_5_py_11



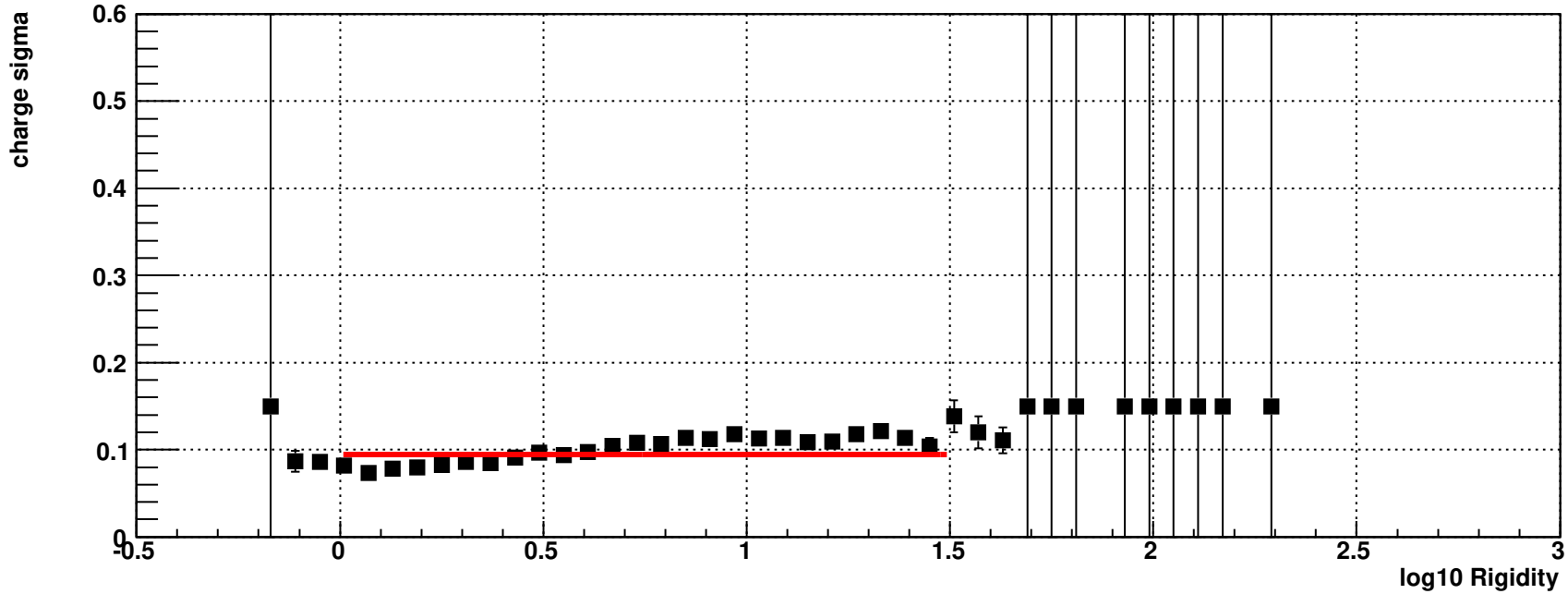

1_rig_charge_pre1_1
1_rig_charge_pre1_1
Entries 3354
Entries: 27346
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

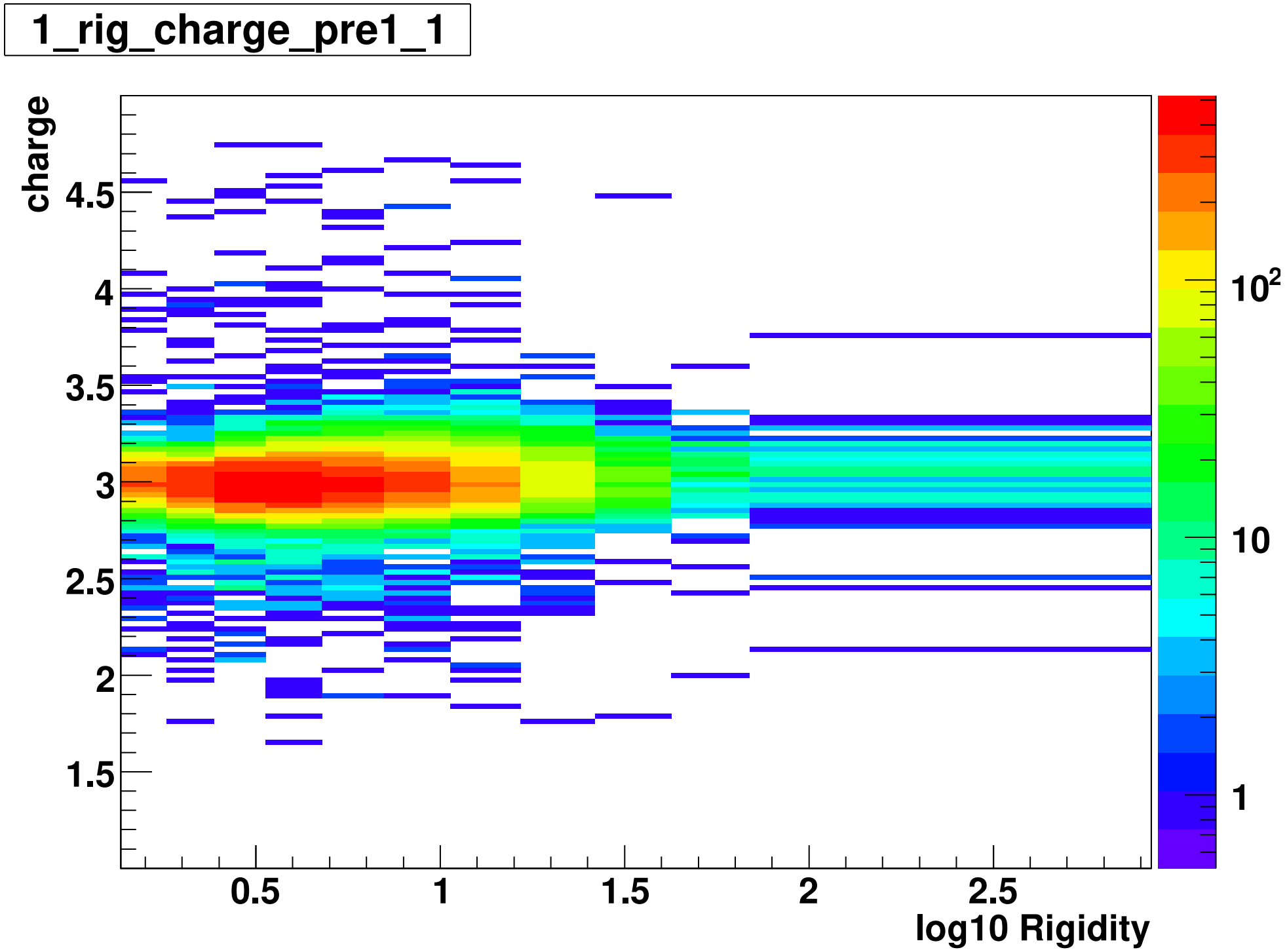


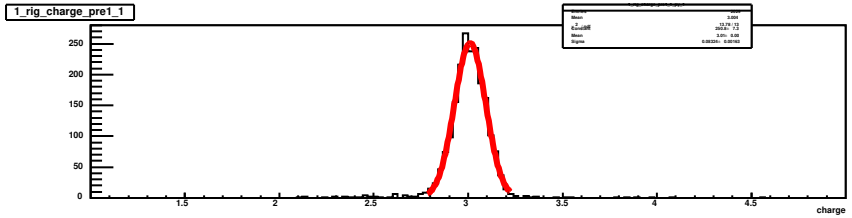
1_rig_charge_pre1_1 Lithium

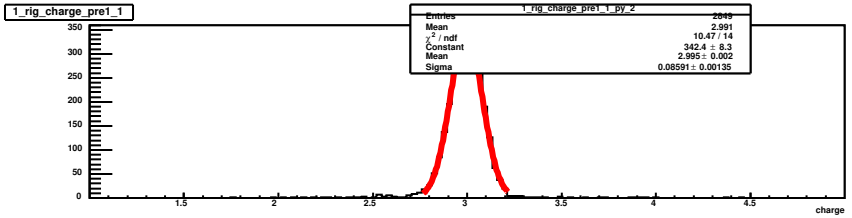


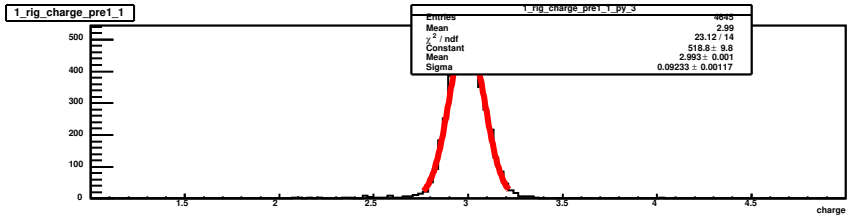
1_rig_charge_pre1_1 Lithium

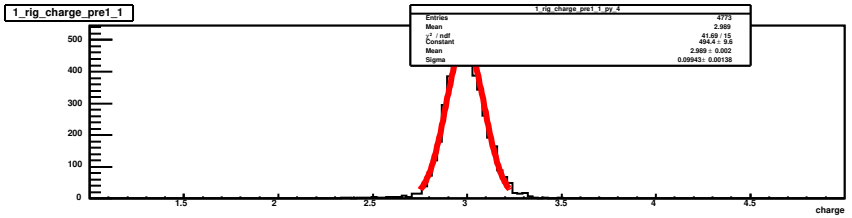


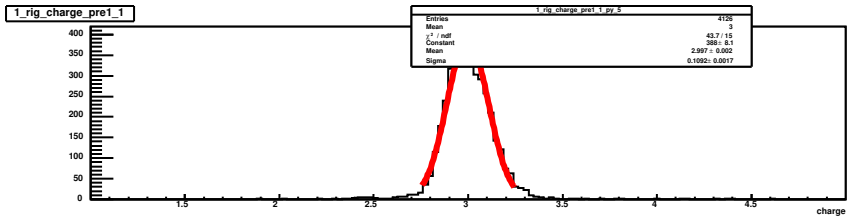

1_rig_charge_pre1_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

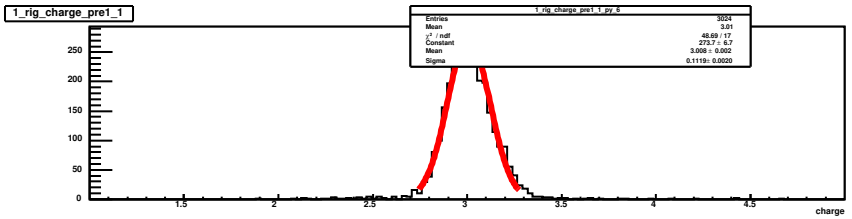

1_rig_charge_pre1_1
charge

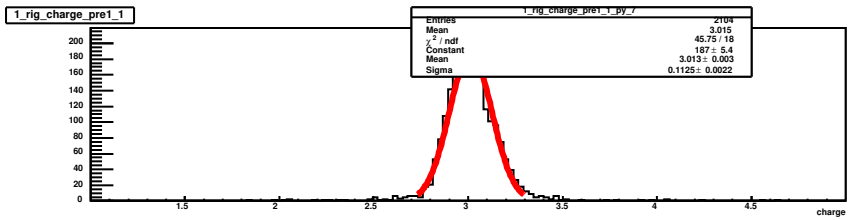

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_2
Entries 2949
Mean 2.991
χ² / ndf 10.47 / 14
Constant 342.4 ± 8.3
Mean 2.995 ± 0.002
Sigma 0.08591 ± 0.00135
charge

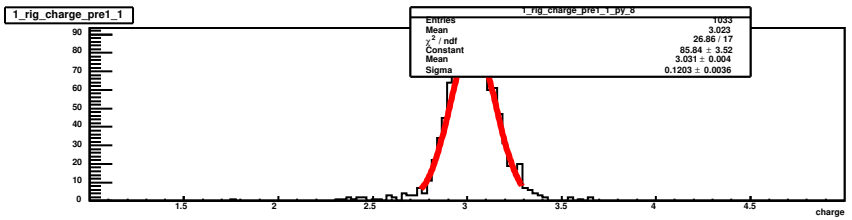

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_3
Entries 4845
Mean 2.99
χ² / ndf 23.12 / 14
Constant 518.8 ± 9.8
Mean 2.993 ± 0.001
Sigma 0.09233 ± 0.00117
charge

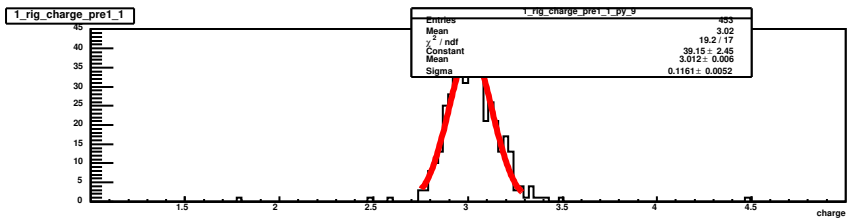

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_4
Entries 4773
Mean 2.989
χ² / ndf 41.69 / 15
Constant 494.4 ± 9.6
Mean 2.989 ± 0.002
Sigma 0.09943 ± 0.00138
charge

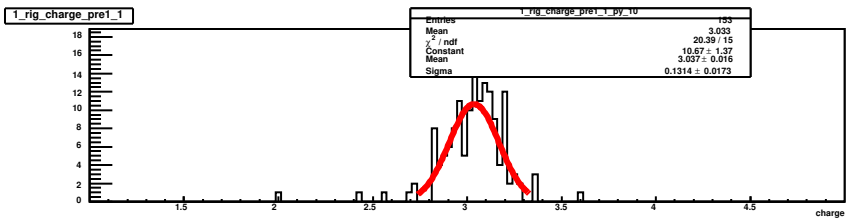

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_5
Entries 4126
Mean 3
χ² / ndf 43.7 / 15
Constant 388 ± 8.1
Mean 2.997 ± 0.002
Sigma 0.1092 ± 0.0017
charge

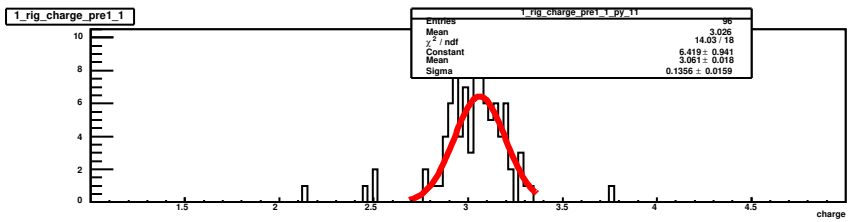

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_6
Entries 3024
Mean 3.01
χ² / ndf 48.69 / 17
Constant 273.7 ± 6.7
Mean 3.008 ± 0.002
Sigma 0.1119 ± 0.0020
charge


1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_7
Entries 2104
Mean 3.015
χ² / ndf 45.75 / 18
Constant 187 ± 5.4
Mean 3.013 ± 0.003
Sigma 0.1125 ± 0.0022
charge

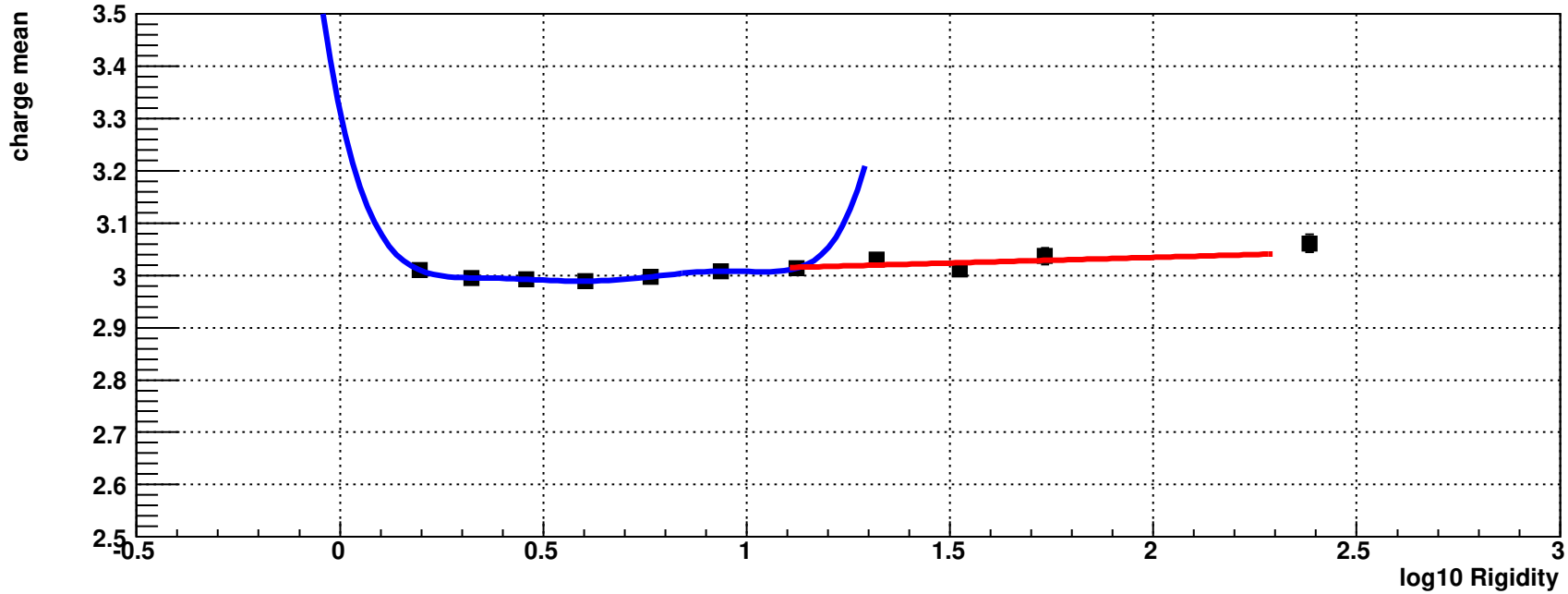

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_8
Entries 1033
Mean 3.023
χ² / ndf 26.86 / 17
Constant 85.84 ± 3.52
Mean 3.031 ± 0.004
Sigma 0.1203 ± 0.0036
charge


1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_9
Entries 453
Mean 3.02
χ² / ndf 19.2 / 17
Constant 39.15 ± 2.45
Mean 3.012 ± 0.006
Sigma 0.1161 ± 0.0052
charge

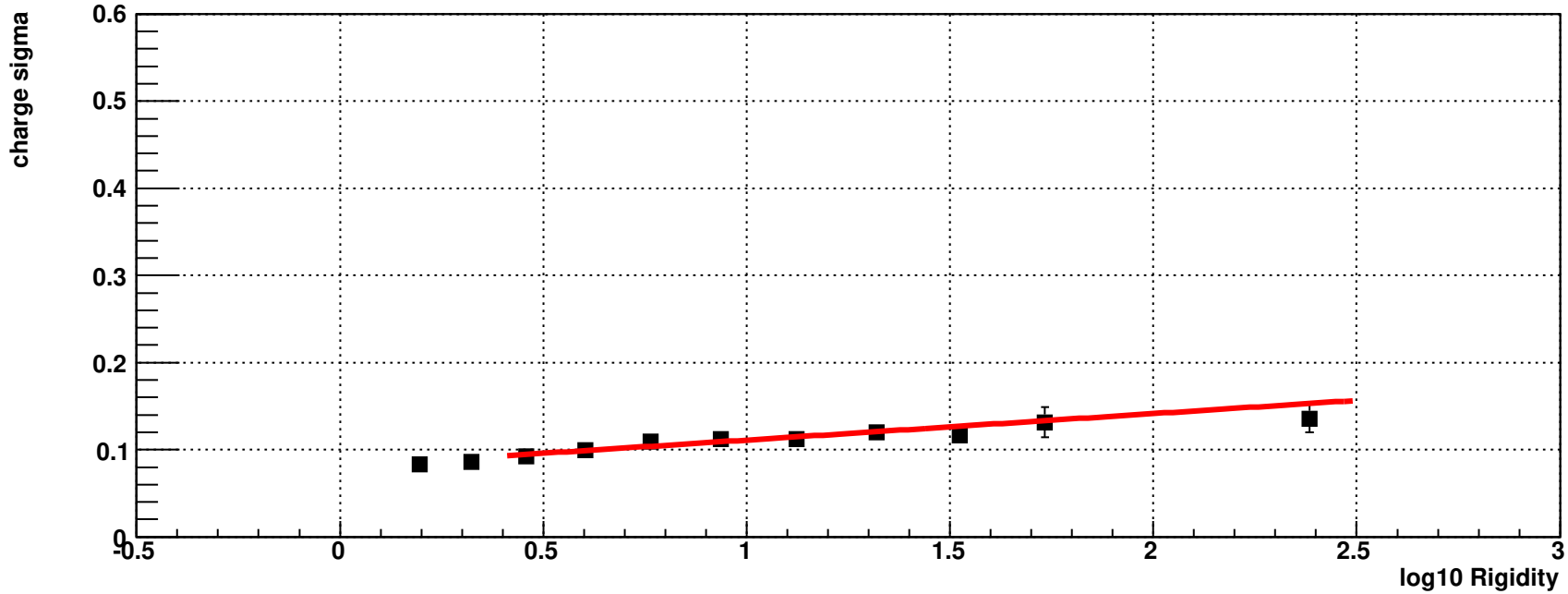

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_10
Entries 193
Mean 3.033
χ² / ndf 20.39 / 15
Constant 10.67 ± 1.37
Mean 3.037 ± 0.016
Sigma 0.1314 ± 0.0173
charge

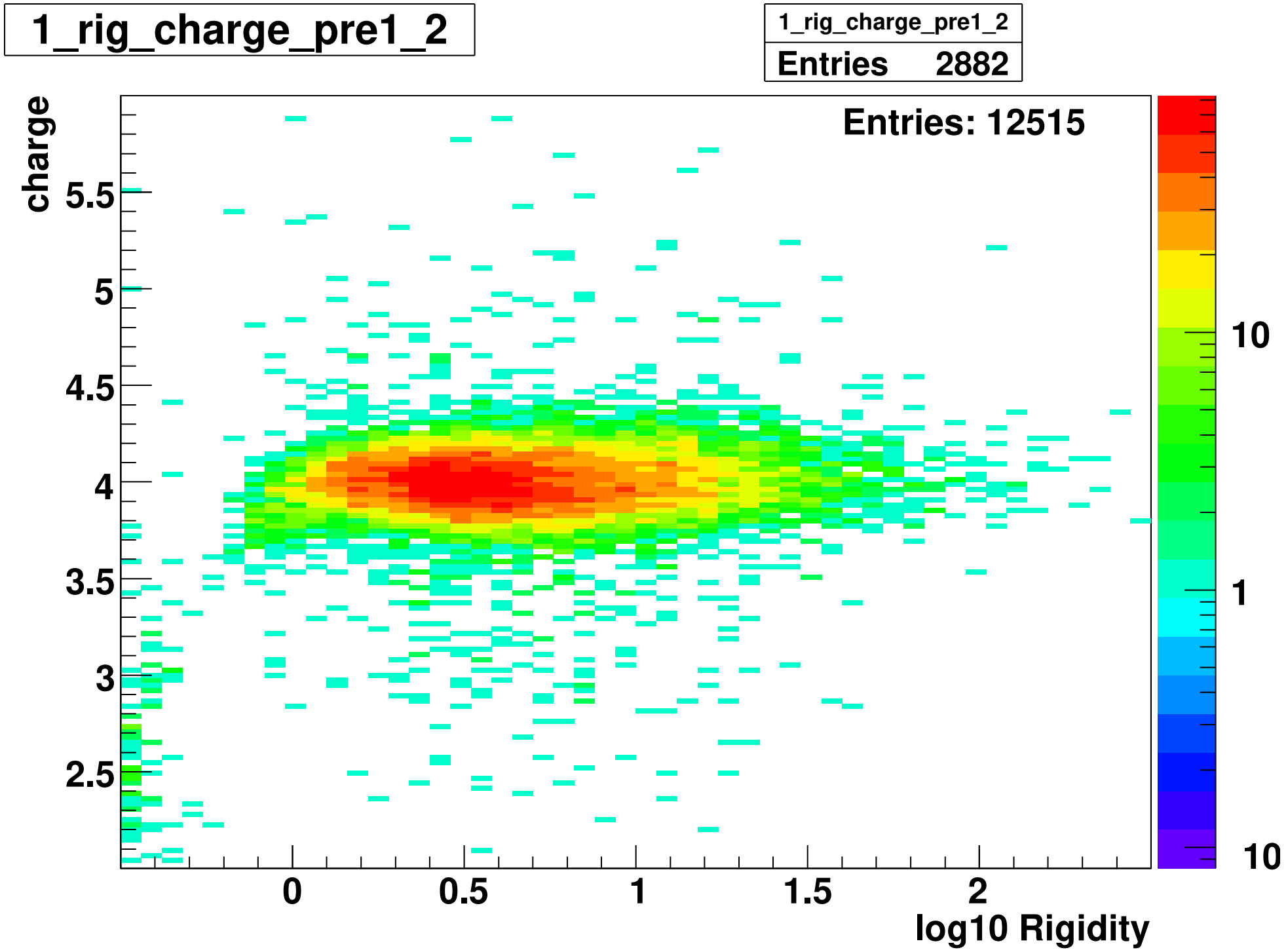

1_rig_charge_pre1_1
1_rig_charge_pre1_1_py_11
Entries 96
Mean 3.026
χ² / ndf 14.03 / 18
Constant 6.419 ± 0.941
Mean 3.061 ± 0.018
Sigma 0.1356 ± 0.0159
charge

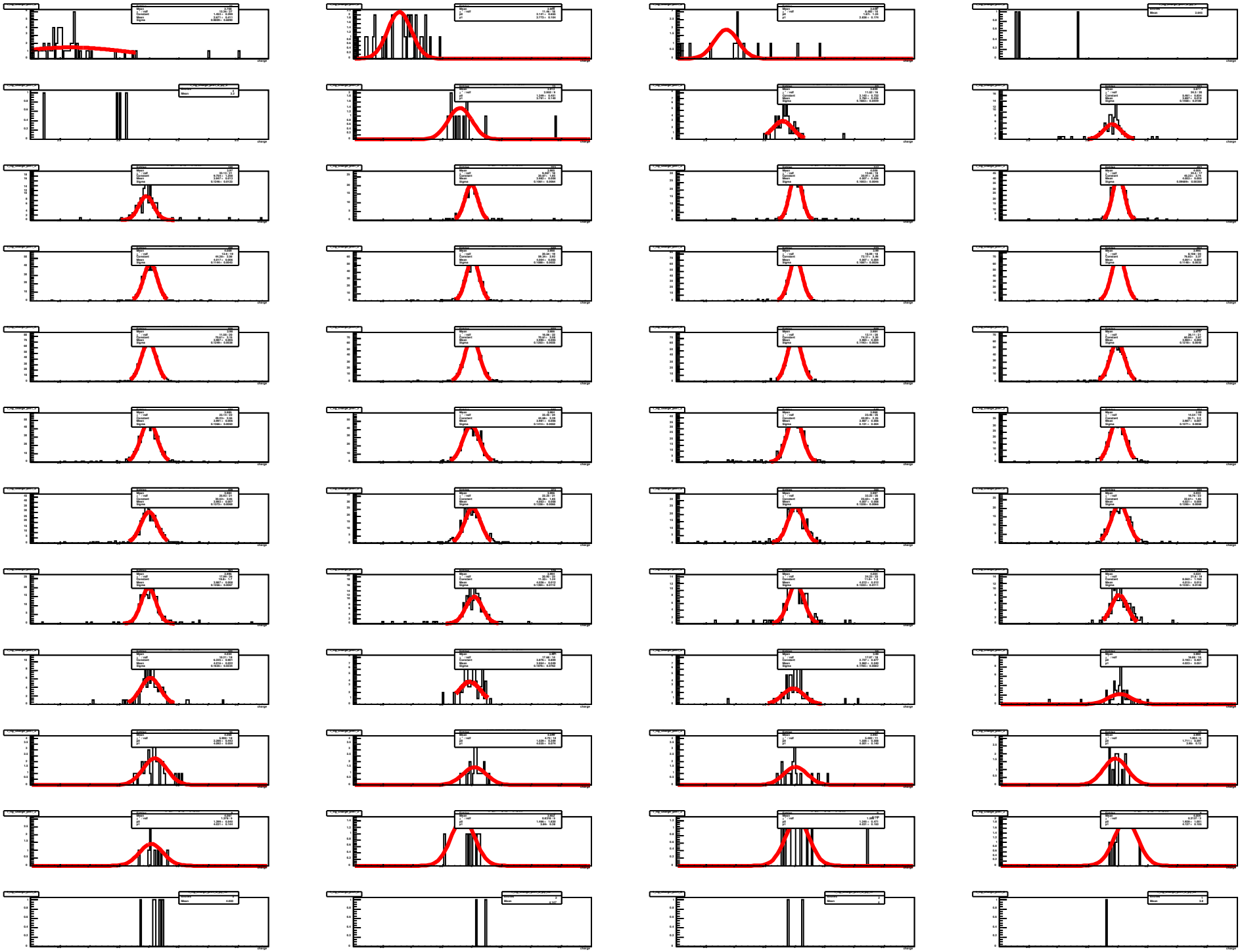
1_rig_charge_pre1_1 Lithium



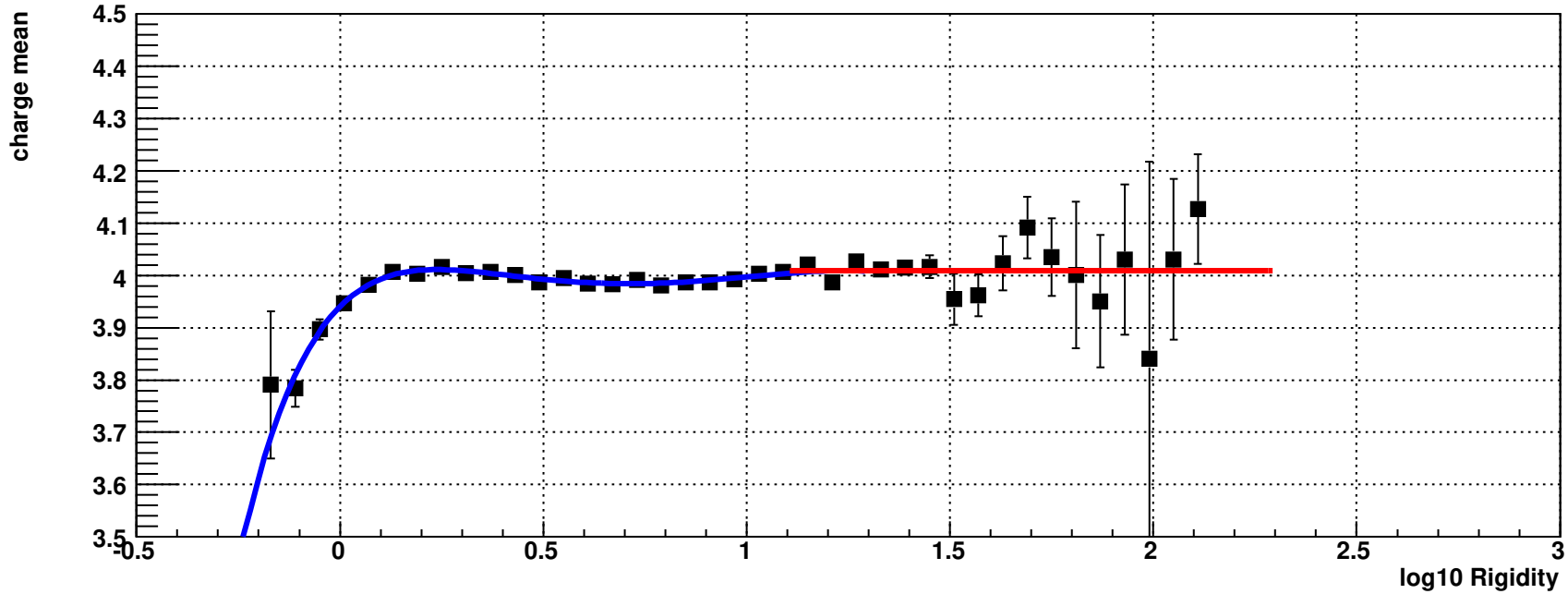
1_rig_charge_pre1_1 Lithium



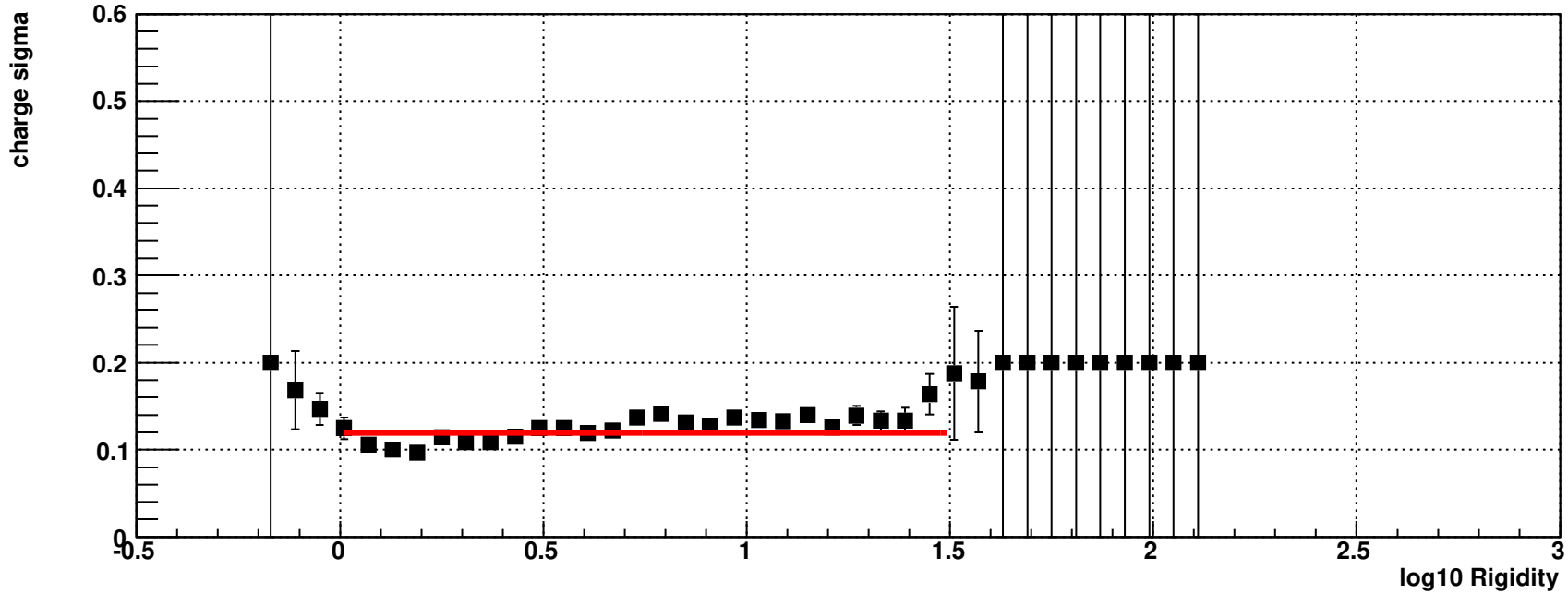

1_rig_charge_pre1_2
1_rig_charge_pre1_2
Entries 2882
Entries: 12515
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

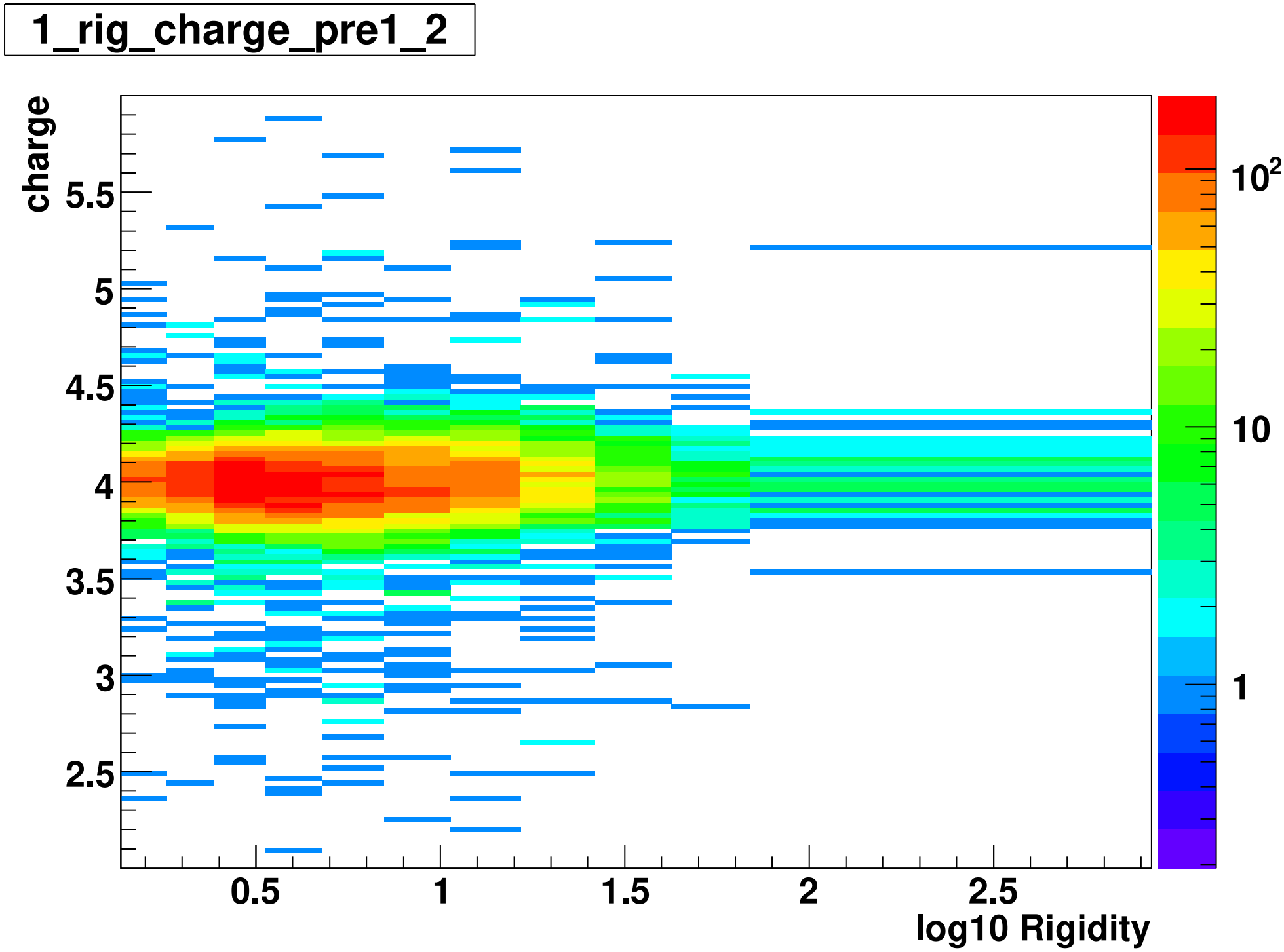


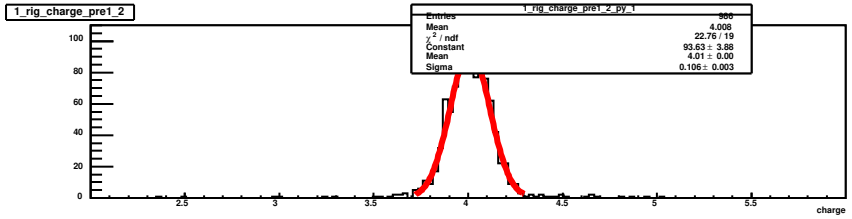
1_rig_charge_pre1_2 Beryllium

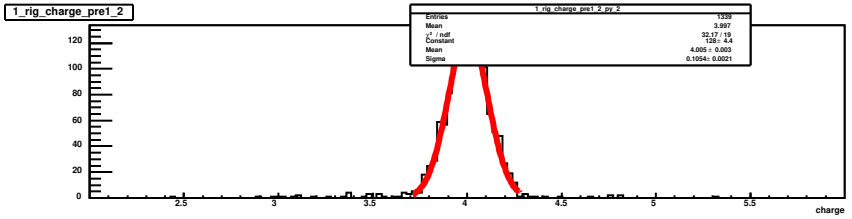


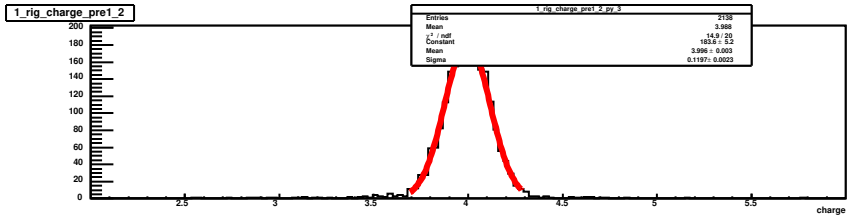
1_rig_charge_pre1_2 Beryllium

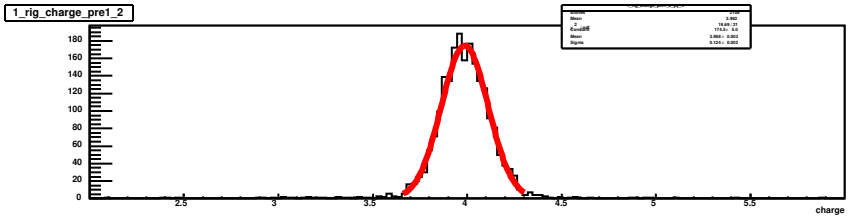


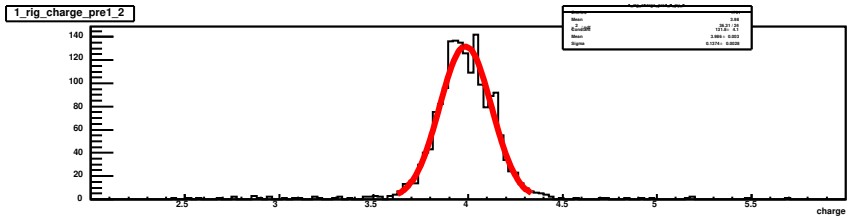

1_rig_charge_pre1_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

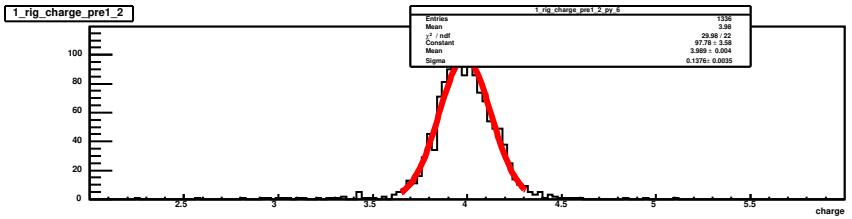

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_1
Entries 906
Mean 4.008
χ² / ndf 22.76 / 19
Constant 93.63 ± 3.88
Mean 4.01 ± 0.00
Sigma 0.106 ± 0.003
charge

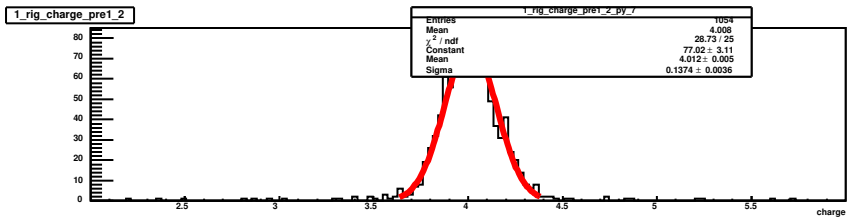

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_2
Entries 1939
Mean 3.997
χ² / ndf 32.17 / 19
Constant 128 ± 4.4
Mean 4.005 ± 0.003
Sigma 0.1054 ± 0.0021
charge

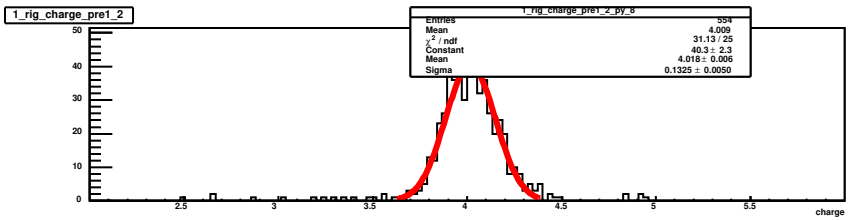

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_3
Entries 2138
Mean 3.988
χ² / ndf 14.9 / 20
Constant 183.6 ± 5.2
Mean 3.998 ± 0.003
Sigma 0.1197 ± 0.0023
charge

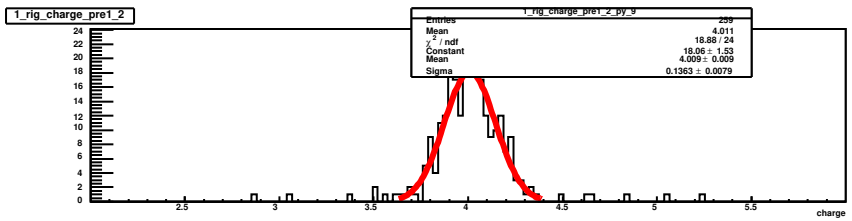

1_rig_charge_pre1_2
charge

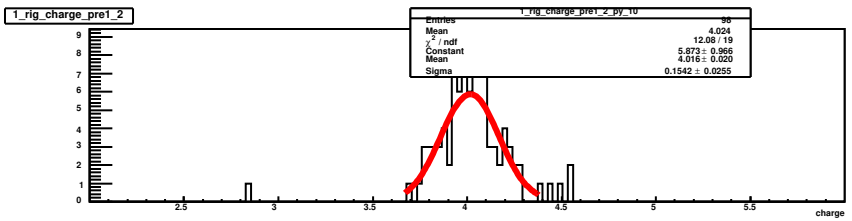

1_rig_charge_pre1_2
charge

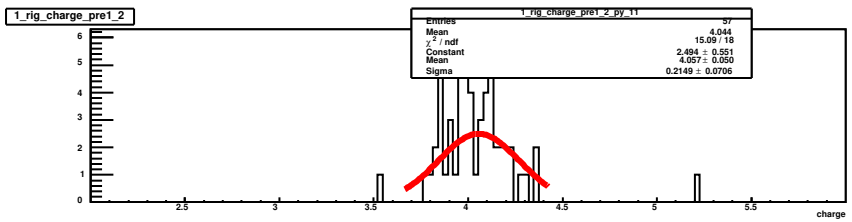

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_6
Entries 1336
Mean 3.98
χ² / ndf 29.98 / 22
Constant 97.78 ± 3.58
Mean 3.989 ± 0.004
Sigma 0.1376 ± 0.0035
charge


1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_7
Entries 1054
Mean 4.008
χ² / ndf 28.73 / 25
Constant 77.02 ± 3.11
Mean 4.012 ± 0.005
Sigma 0.1374 ± 0.0036
charge

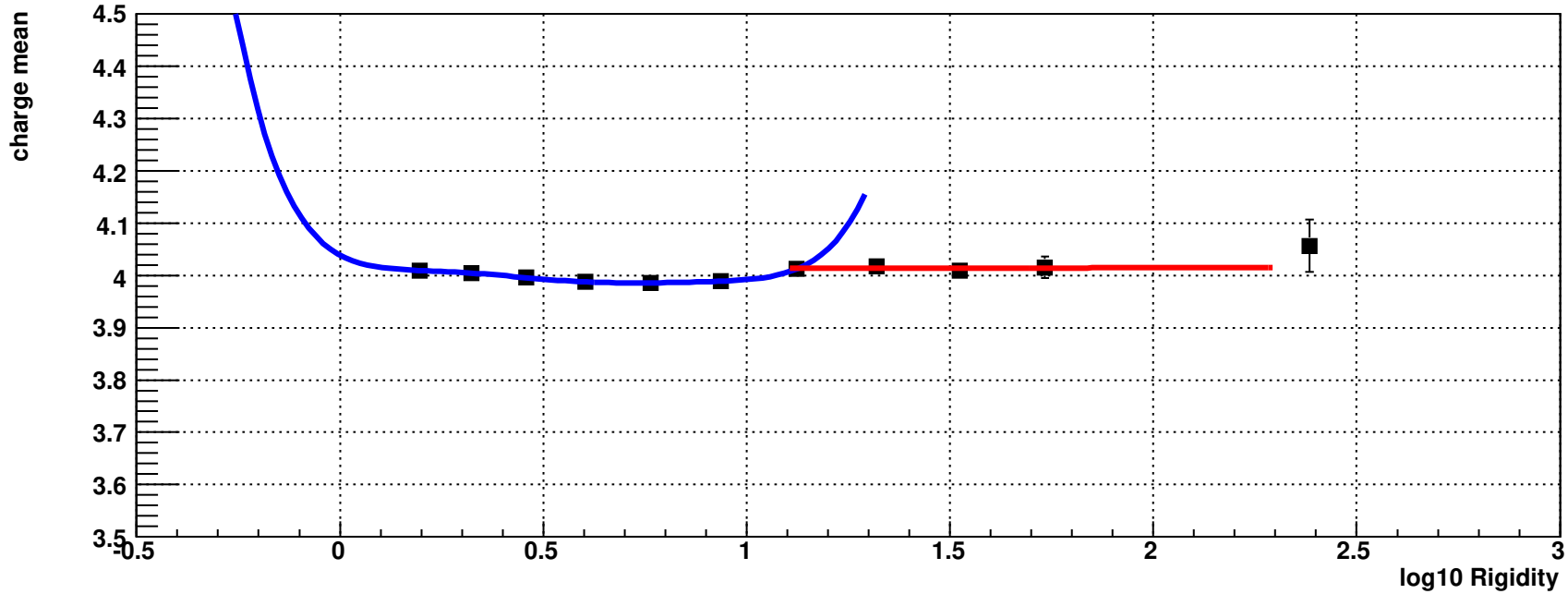

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_8
Entries 554
Mean 4.009
χ² / ndf 31.13 / 25
Constant 40.3 ± 2.3
Mean 4.018 ± 0.006
Sigma 0.1325 ± 0.0050
charge


1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_9
Entries 299
Mean 4.011
χ² / ndf 18.88 / 24
Constant 18.06 ± 1.53
Mean 4.009 ± 0.009
Sigma 0.1363 ± 0.0079
charge

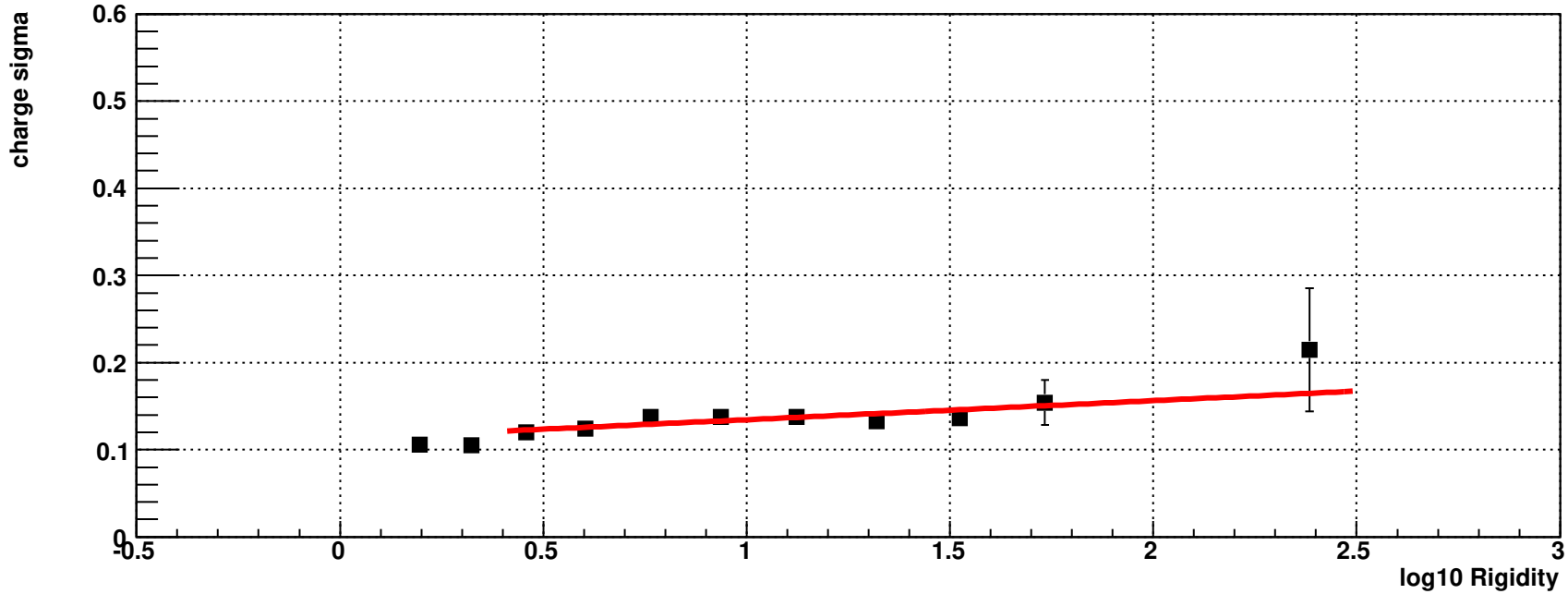

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_10
Entries 98
Mean 4.024
χ² / ndf 12.08 / 19
Constant 5.873 ± 0.966
Mean 4.016 ± 0.020
Sigma 0.1542 ± 0.0255
charge

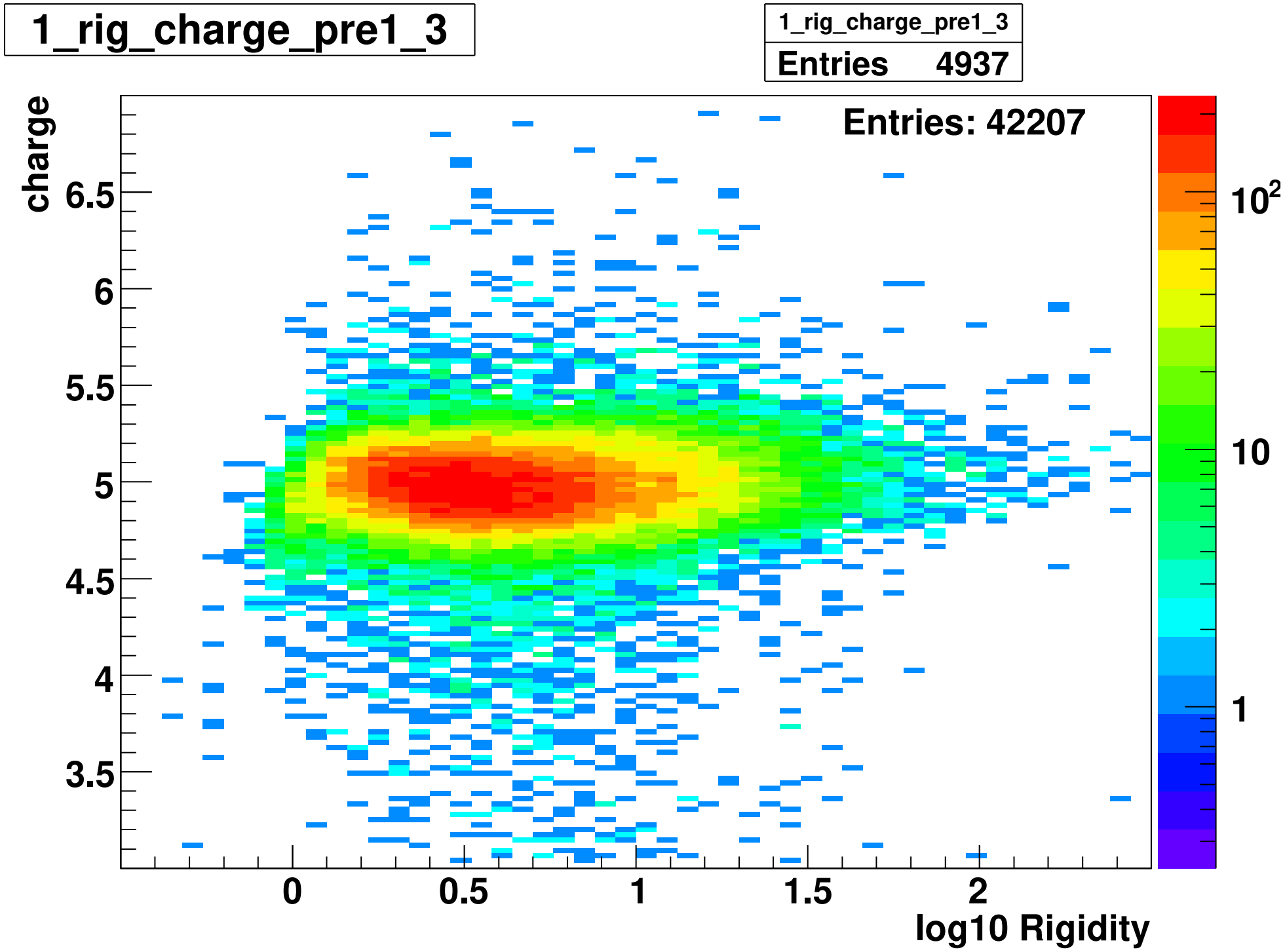

1_rig_charge_pre1_2
1_rig_charge_pre1_2_py_11
Entries 57
Mean 4.044
χ² / ndf 15.09 / 18
Constant 2.494 ± 0.551
Mean 4.057 ± 0.050
Sigma 0.2149 ± 0.0706
charge

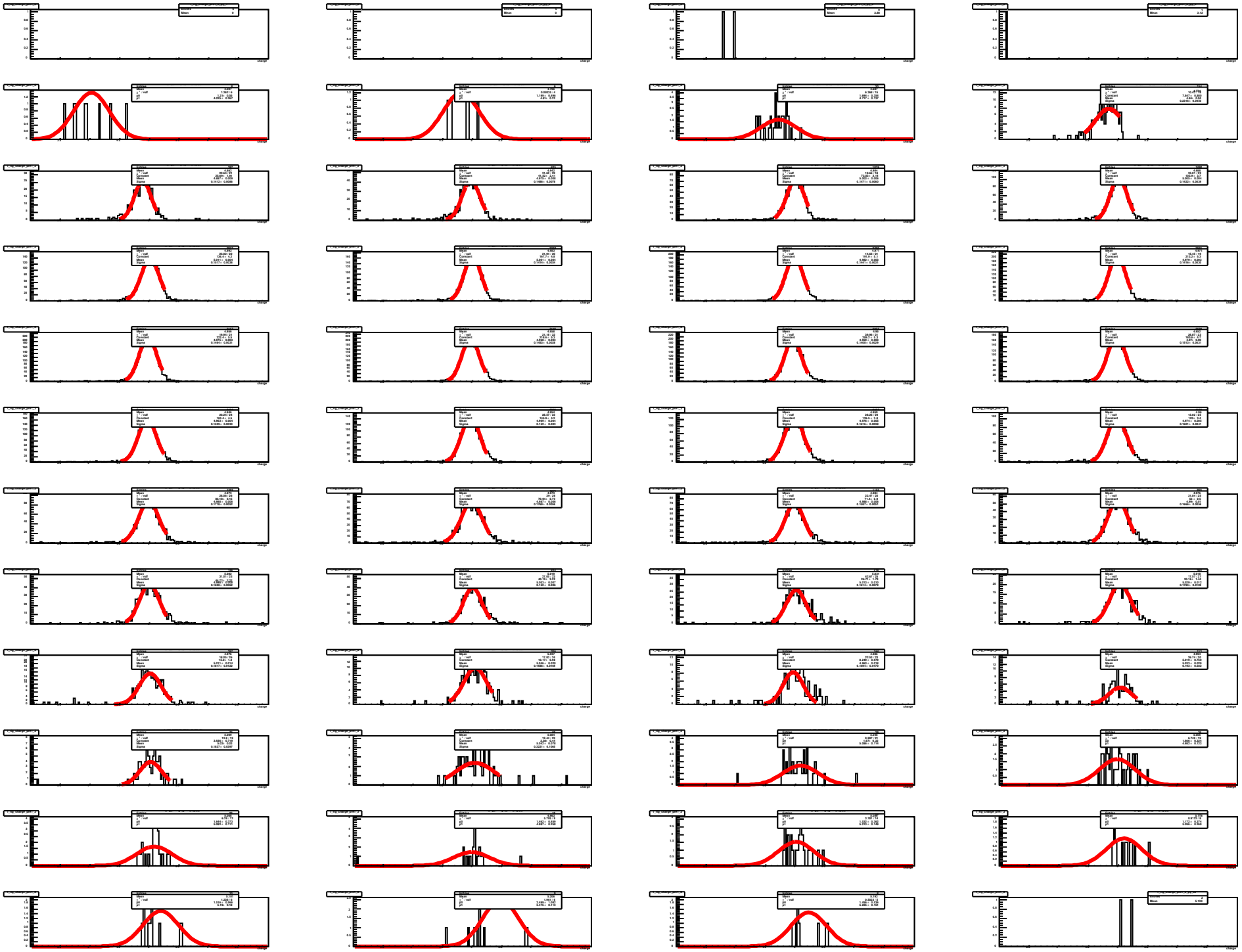
1_rig_charge_pre1_2 Beryllium



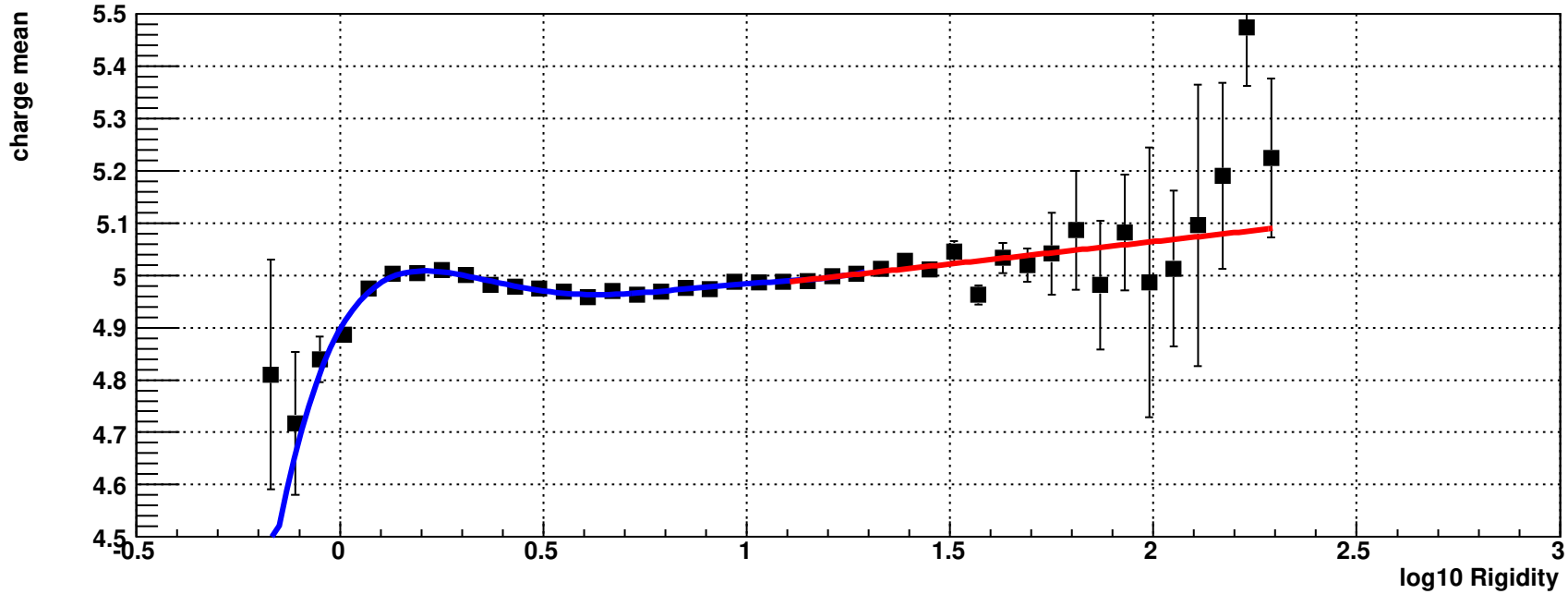
1_rig_charge_pre1_2 Beryllium



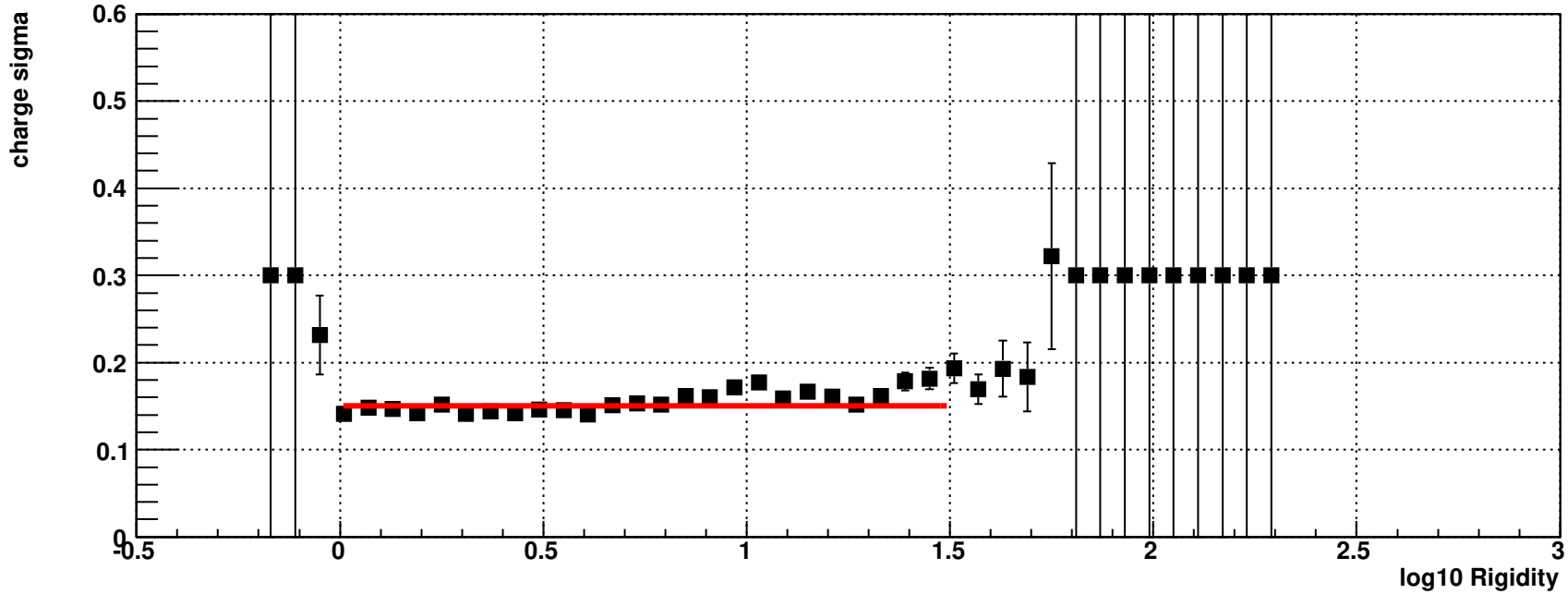

1_rig_charge_pre1_3
1_rig_charge_pre1_3
Entries 4937
Entries: 42207
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

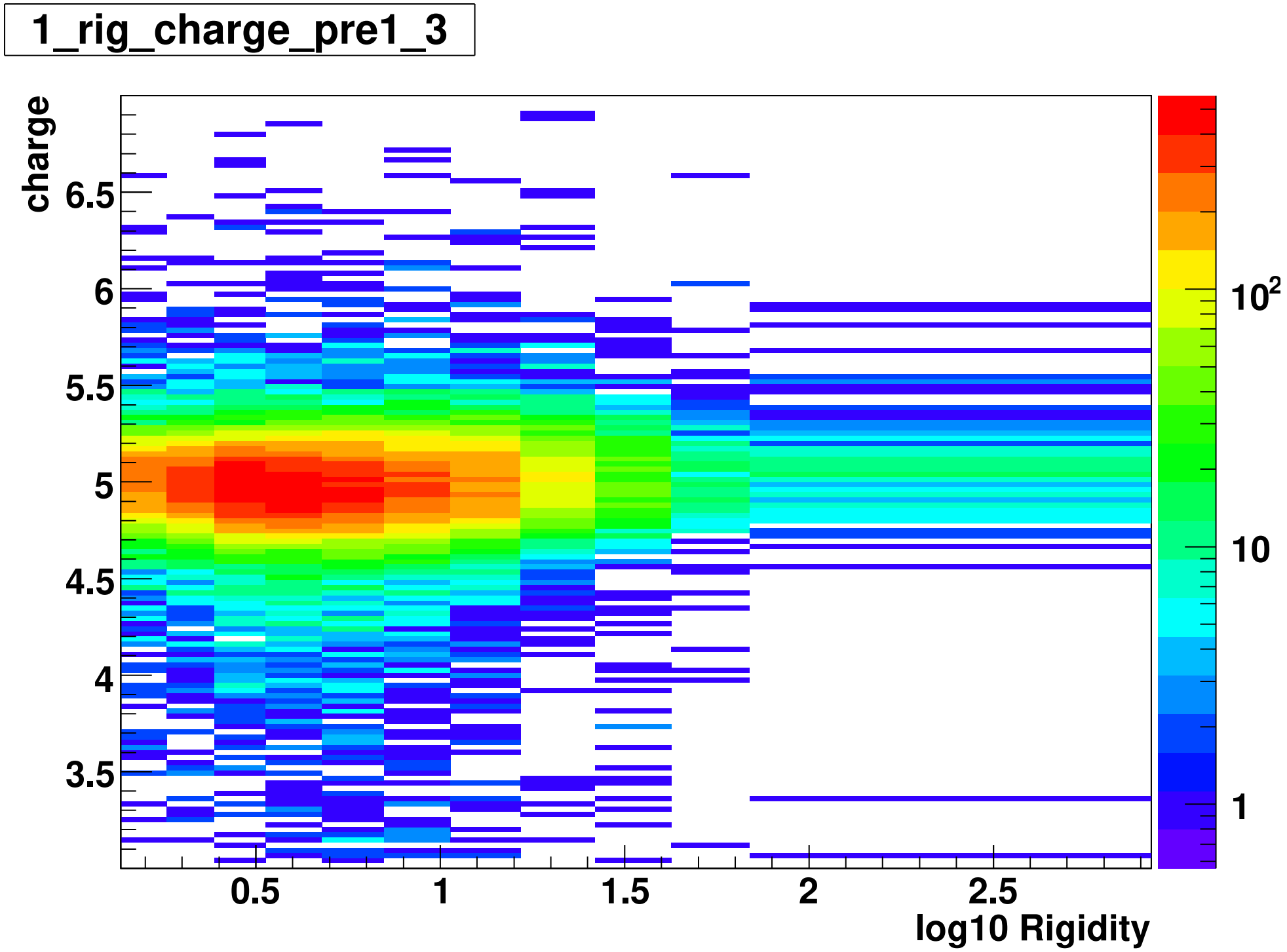


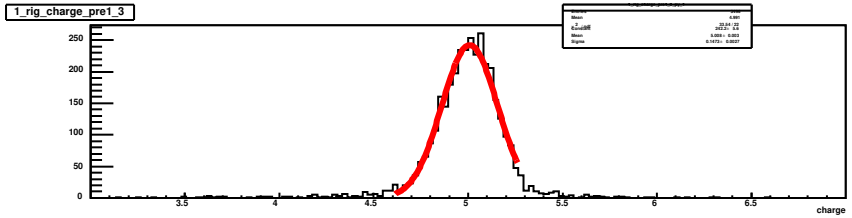
1_rig_charge_pre1_3 Boron

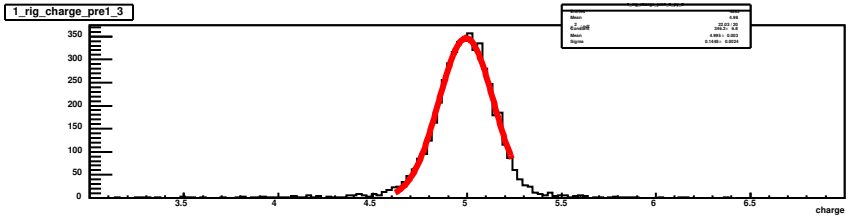


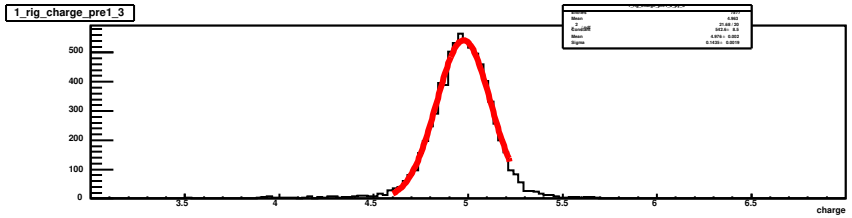
1_rig_charge_pre1_3 Boron

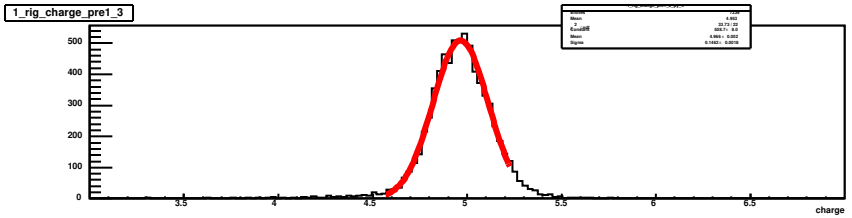


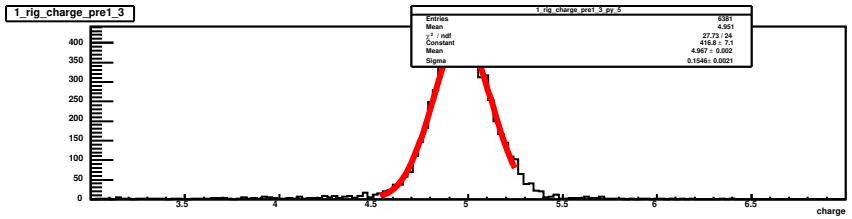

1_rig_charge_pre1_3
charge
6.5
6
5.5
5
4.5
4
3.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

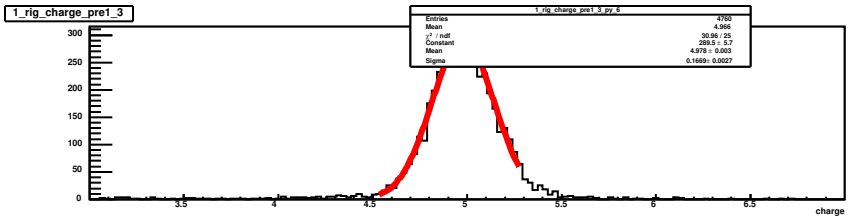

1_rig_charge_pre1_3
charge

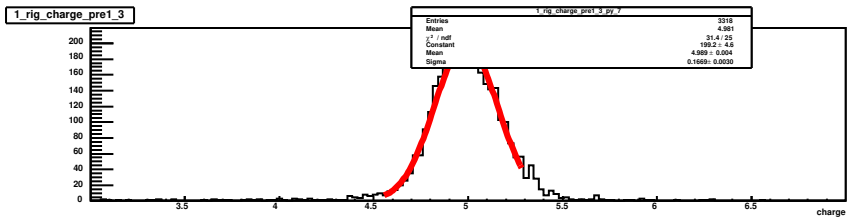

1_rig_charge_pre1_3
charge

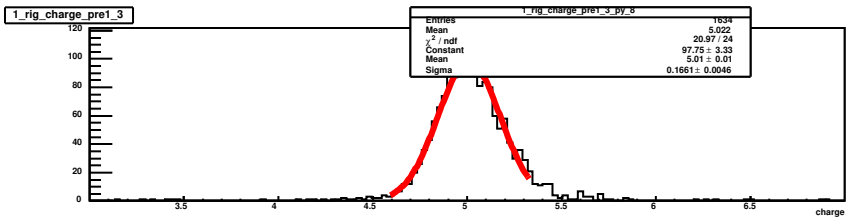

1_rig_charge_pre1_3
charge

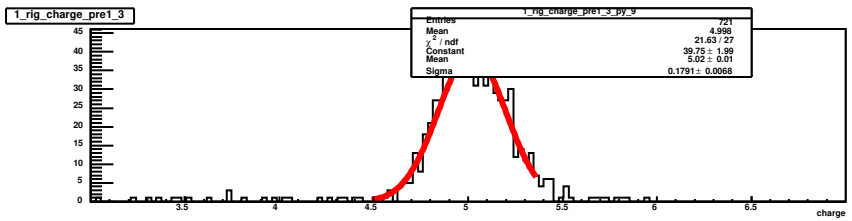

1_rig_charge_pre1_3
charge

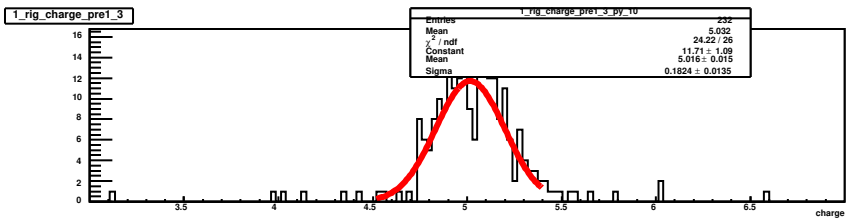

1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_5
Entries 6381
Mean 4.951
χ² / ndf 27.73 / 24
Constant 416.8 ± 7.1
Mean 4.967 ± 0.002
Sigma 0.1546 ± 0.0021
charge

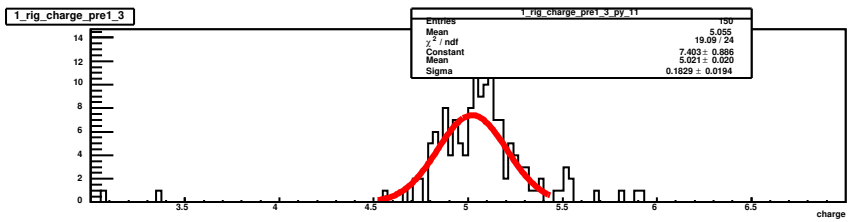

1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_6
Entries 4760
Mean 4.966
χ² / ndf 30.96 / 25
Constant 289.5 ± 5.7
Mean 4.978 ± 0.003
Sigma 0.1669 ± 0.0027
charge


1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_7
Entries 3318
Mean 4.981
χ² / ndf 31.4 / 25
Constant 199.2 ± 4.6
Mean 4.989 ± 0.004
Sigma 0.1669 ± 0.0030
charge

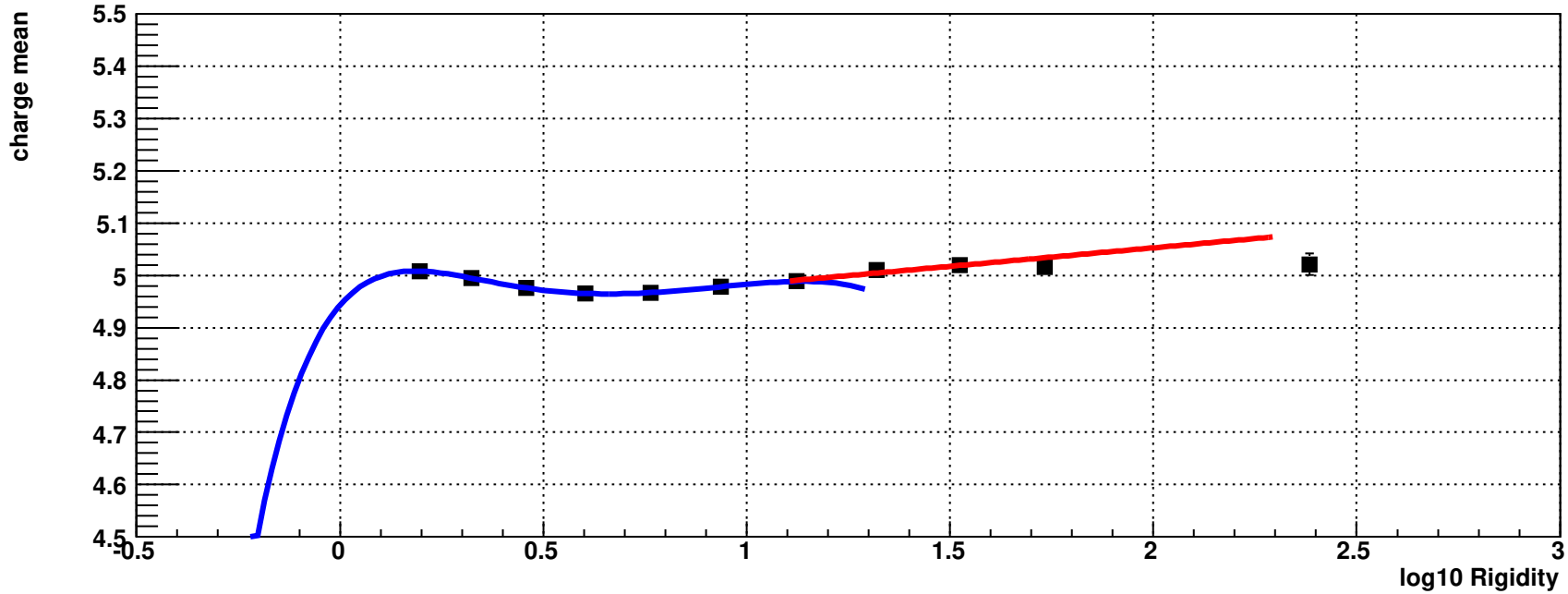

1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_8
Entries 1634
Mean 5.022
χ² / ndf 20.97 / 24
Constant 97.75 ± 3.33
Mean 5.01 ± 0.01
Sigma 0.1661 ± 0.0046
charge


1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_9
Entries 721
Mean 4.998
χ² / ndf 21.63 / 27
Constant 39.75 ± 1.99
Mean 5.02 ± 0.01
Sigma 0.1791 ± 0.0068
charge

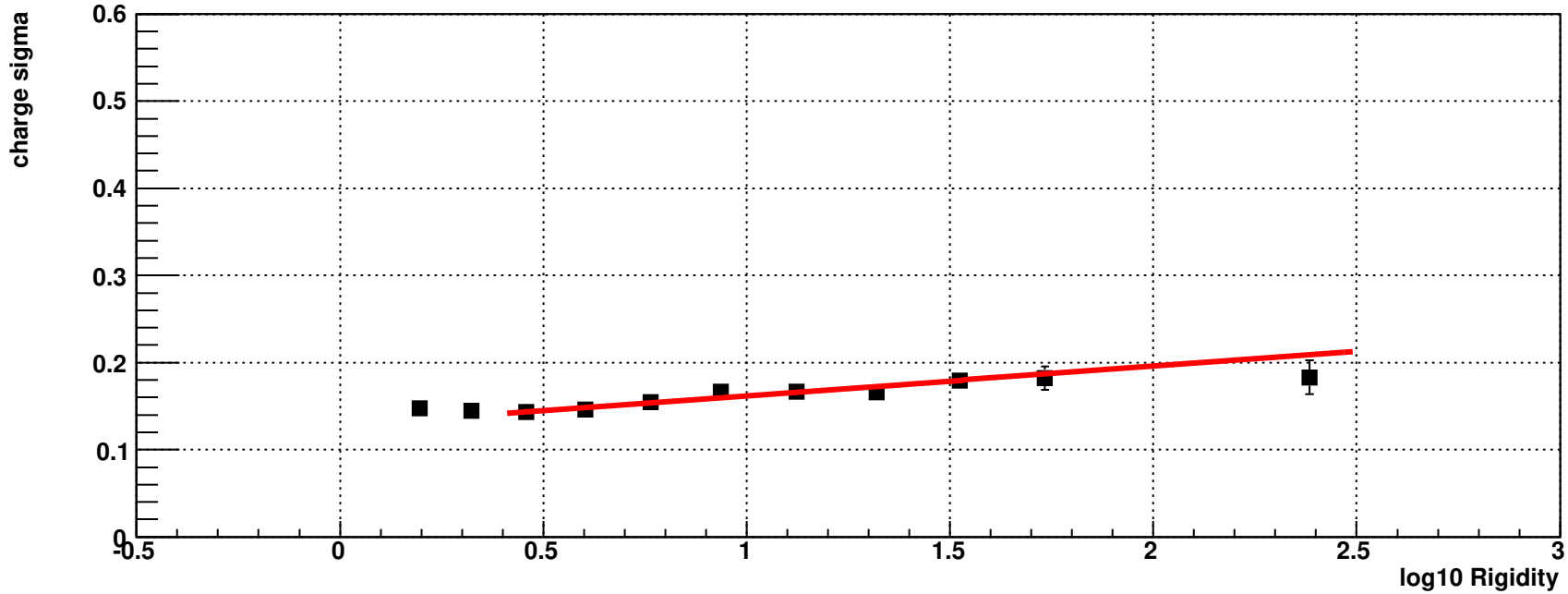

1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_10
Entries 232
Mean 5.032
χ² / ndf 24.22 / 26
Constant 11.71 ± 1.09
Mean 5.016 ± 0.015
Sigma 0.1824 ± 0.0135
charge

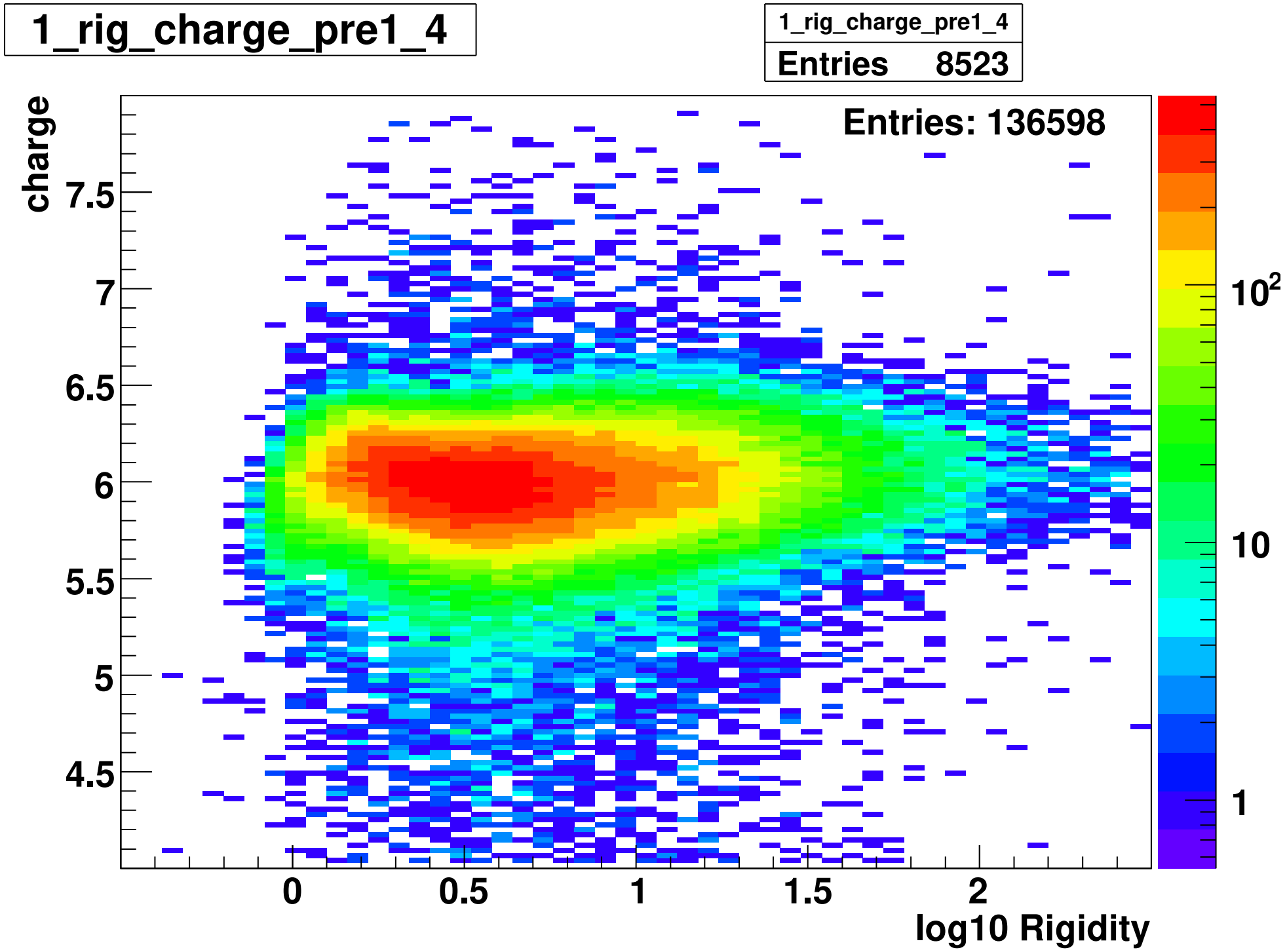

1_rig_charge_pre1_3
1_rig_charge_pre1_3_py_11
Entries 150
Mean 5.055
χ² / ndf 19.09 / 24
Constant 7.403 ± 0.886
Mean 5.021 ± 0.020
Sigma 0.1829 ± 0.0194
charge

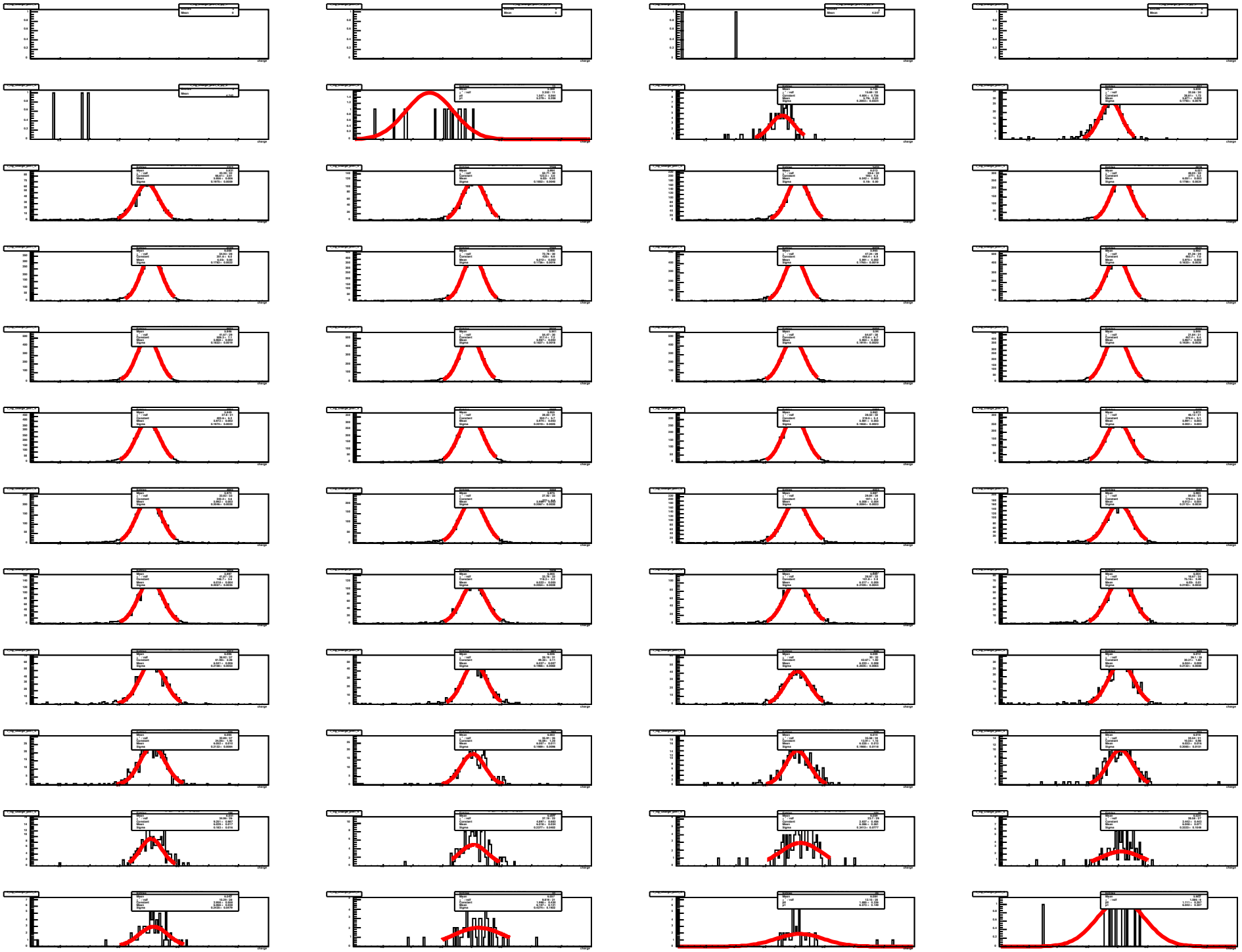
1_rig_charge_pre1_3 Boron



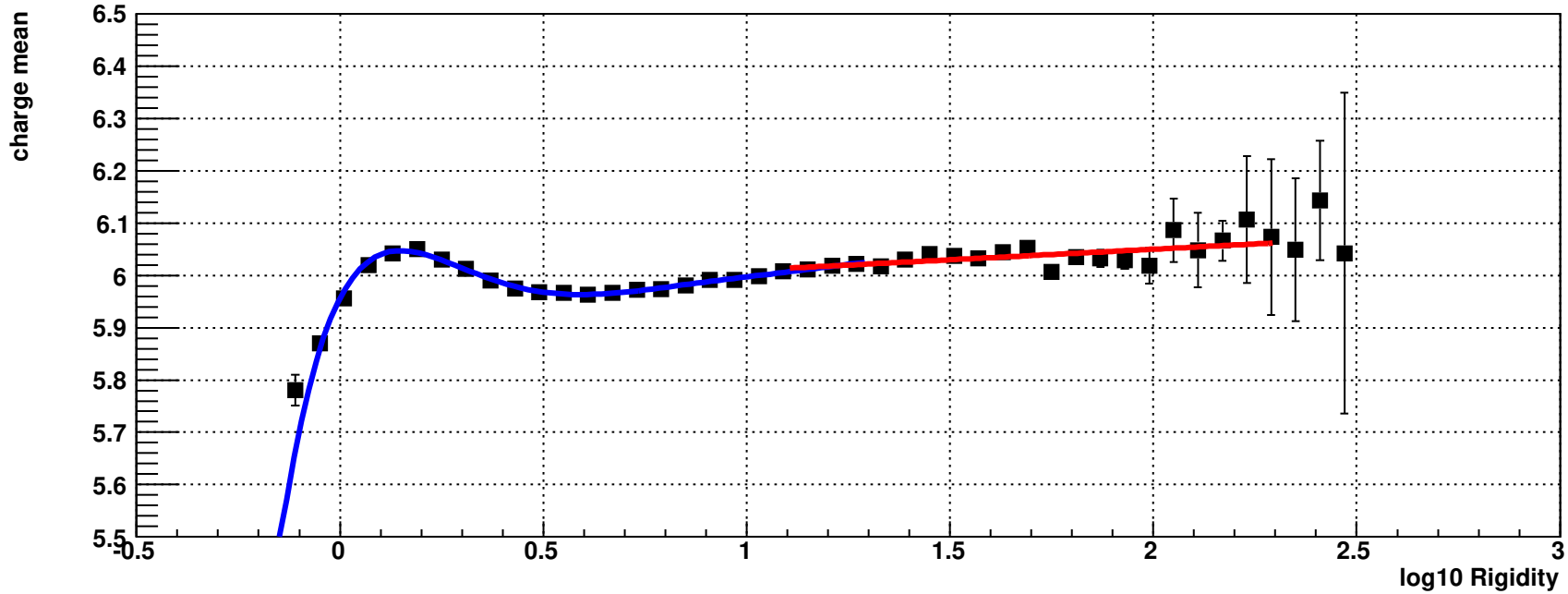
1_rig_charge_pre1_3 Boron



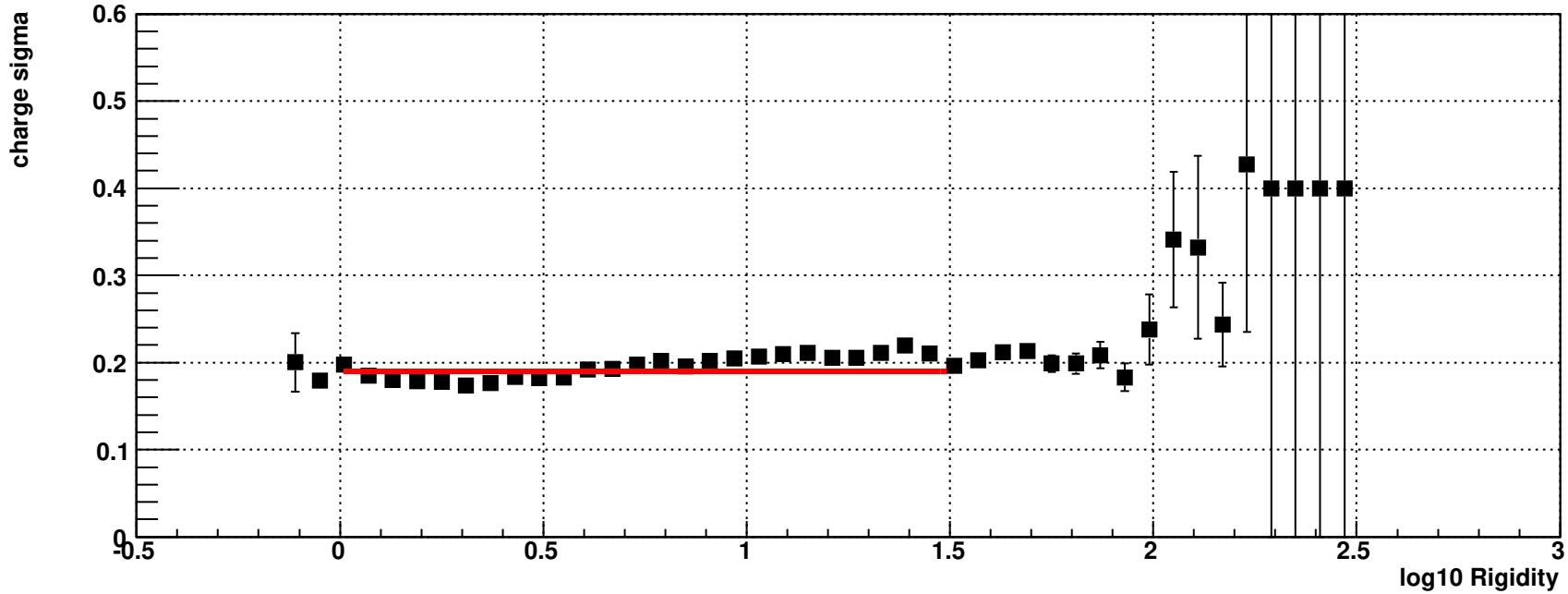

1_rig_charge_pre1_4
1_rig_charge_pre1_4
Entries 8523
Entries: 136598
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

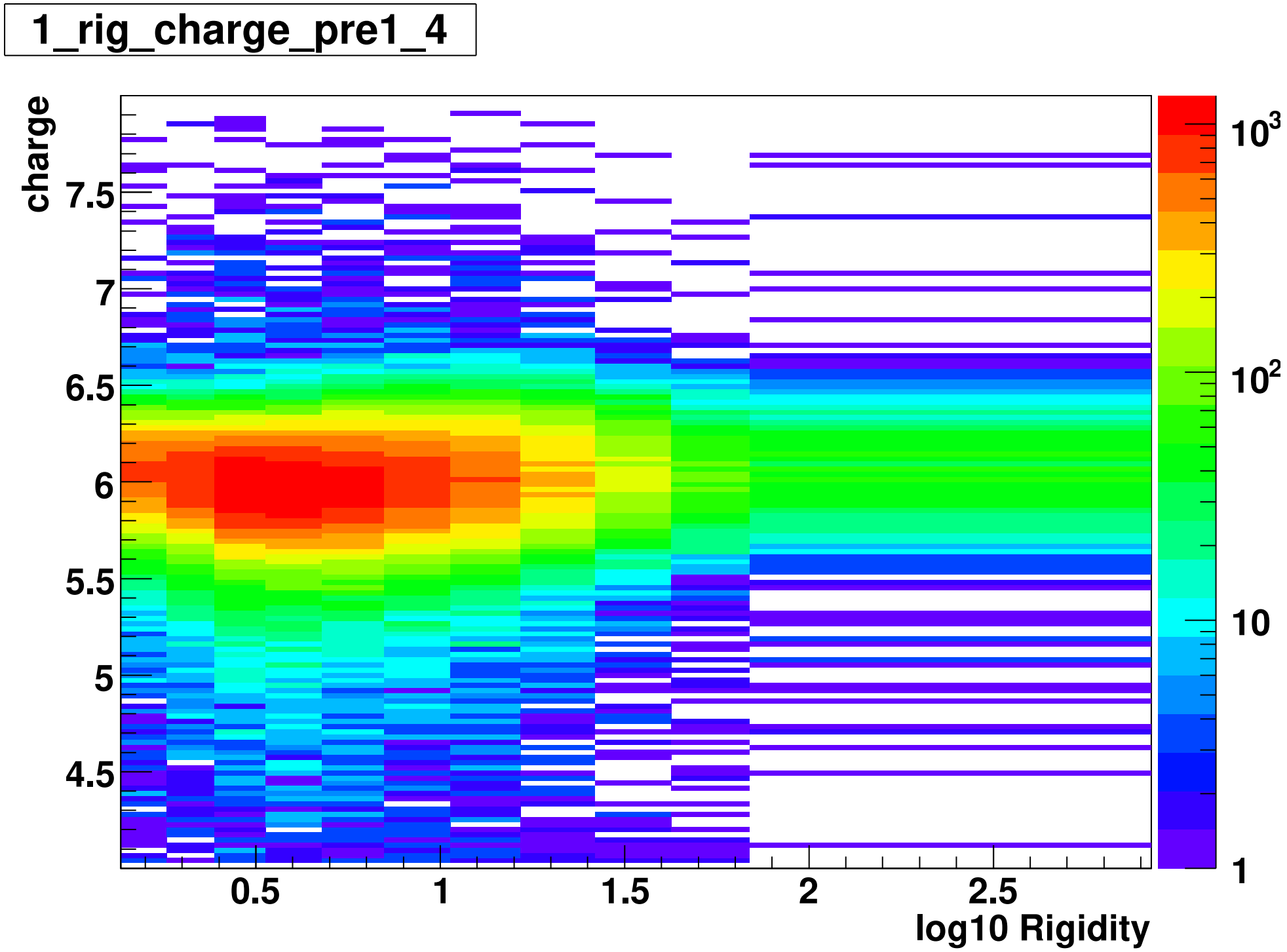


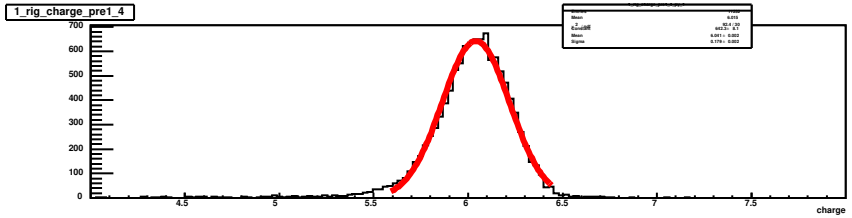
1_rig_charge_pre1_4 Carbon

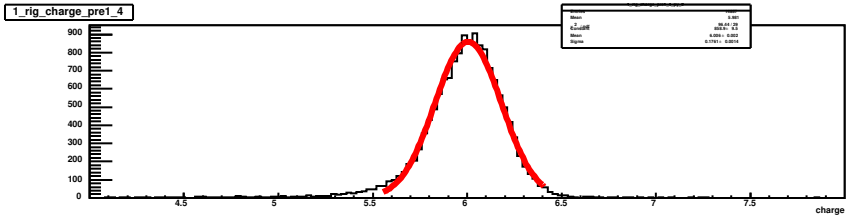


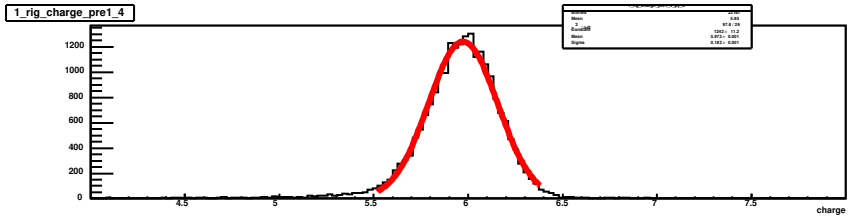
1_rig_charge_pre1_4 Carbon

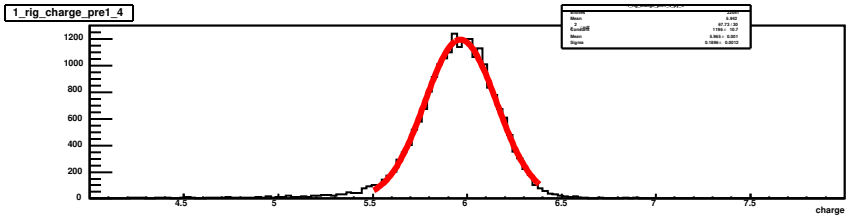


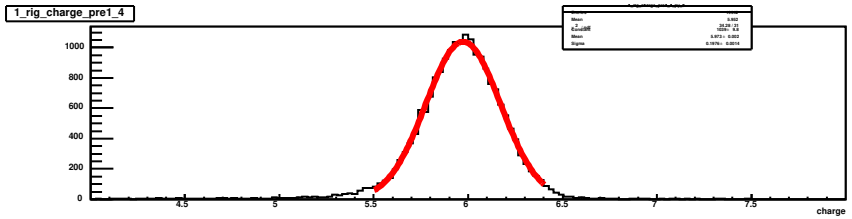

1_rig_charge_pre1_4
charge
7.5
7
6.5
6
5.5
5
4.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^3
10^2
10
1

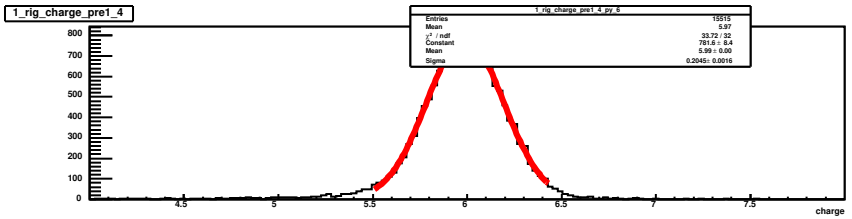

1_rig_charge_pre1_4
charge

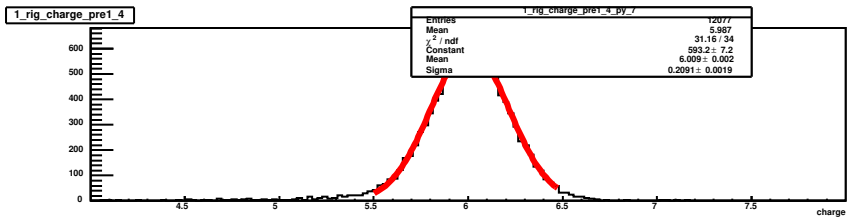

1_rig_charge_pre1_4
charge

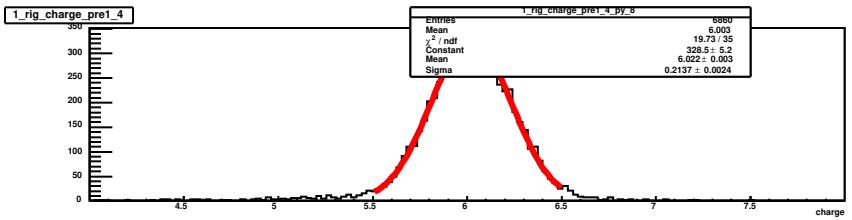

1_rig_charge_pre1_4
charge

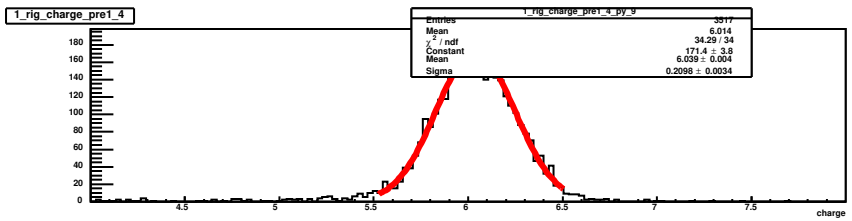

1_rig_charge_pre1_4
charge

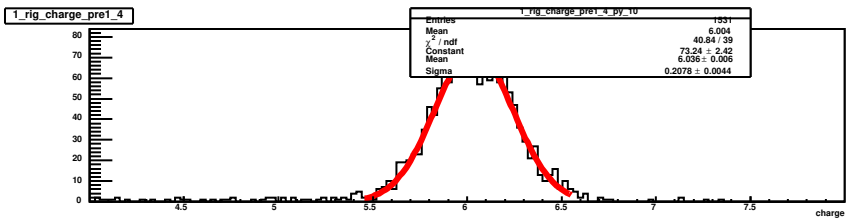

1_rig_charge_pre1_4
charge

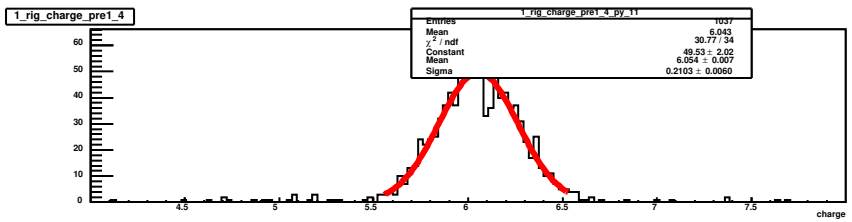

1_rig_charge_pre1_4
1_rig_charge_pre1_4_py_6
Entries 15515
Mean 5.97
χ² / ndf 33.72 / 32
Constant 781.8 ± 8.4
Mean 5.99 ± 0.00
Sigma 0.2045± 0.0016
charge


1_rig_charge_pre1_4
1_rig_charge_pre1_4_py_7
Entries 12077
Mean 5.987
χ² / ndf 31.16 / 34
Constant 593.2 ± 7.2
Mean 6.009 ± 0.002
Sigma 0.2091 ± 0.0019
charge

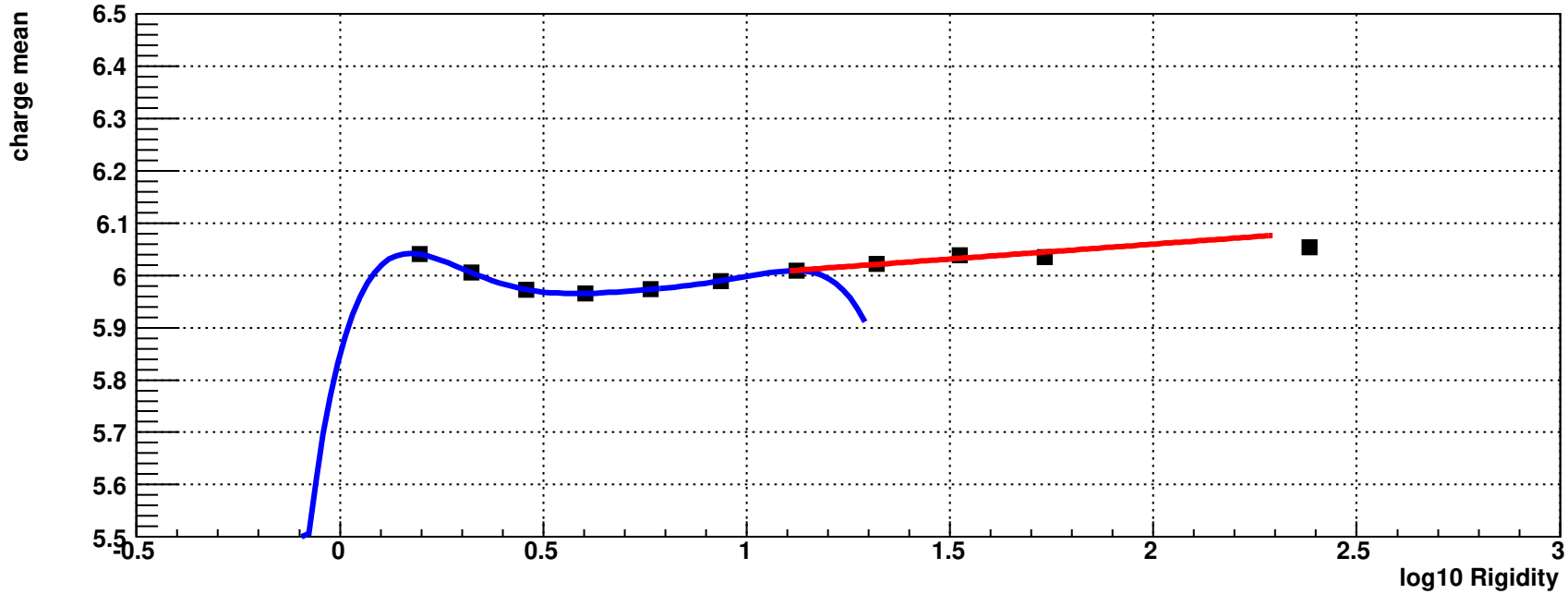

1_rig_charge_pre1_4
1_rig_charge_pre1_4_py_8
Entries 6860
Mean 6.003
χ² / ndf 19.73 / 35
Constant 328.5 ± 5.2
Mean 6.022 ± 0.003
Sigma 0.2137 ± 0.0024
charge


1_rig_charge_pre1_4
1_rig_charge_pre1_4_py_9
Entries 3317
Mean 6.014
χ² / ndf 34.29 / 34
Constant 171.4 ± 3.8
Mean 6.039 ± 0.004
Sigma 0.2098 ± 0.0034
charge

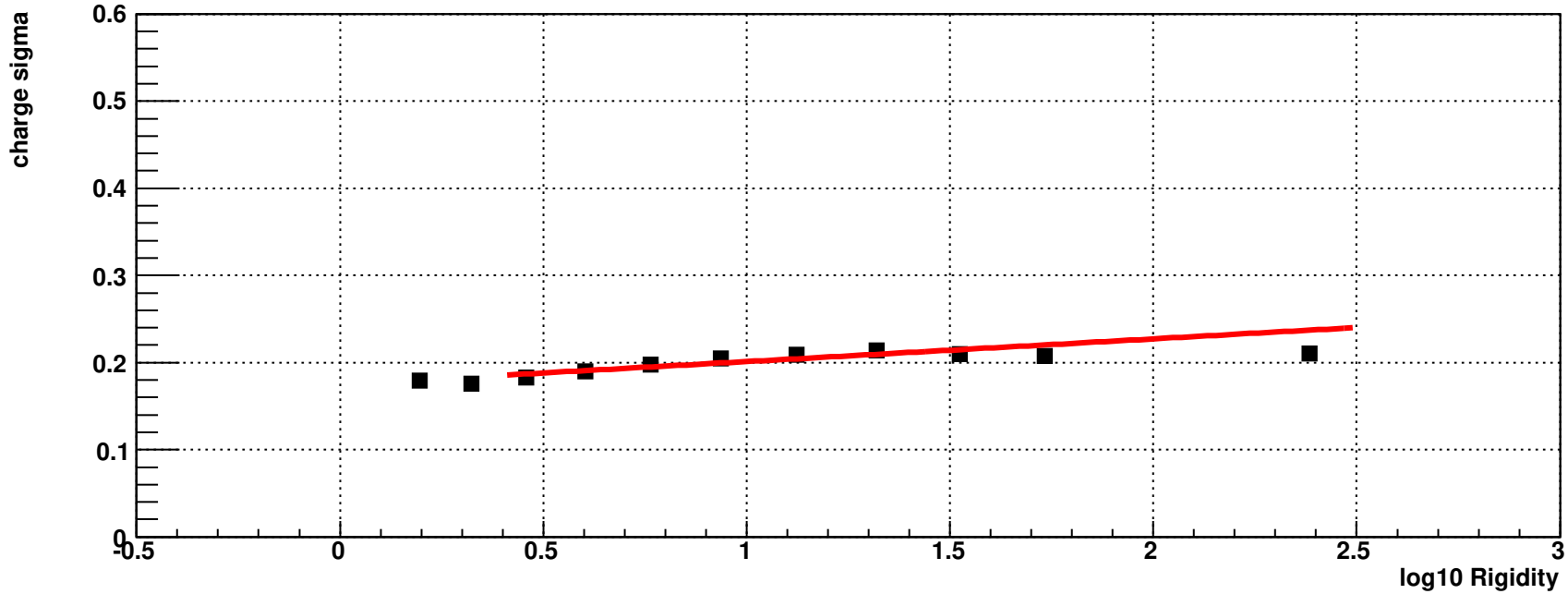

1_rig_charge_pre1_4
1_rig_charge_pre1_4_py_10
Entries 1531
Mean 6.004
χ² / ndf 40.84 / 39
Constant 73.24 ± 2.42
Mean 6.036 ± 0.006
Sigma 0.2078 ± 0.0044
charge

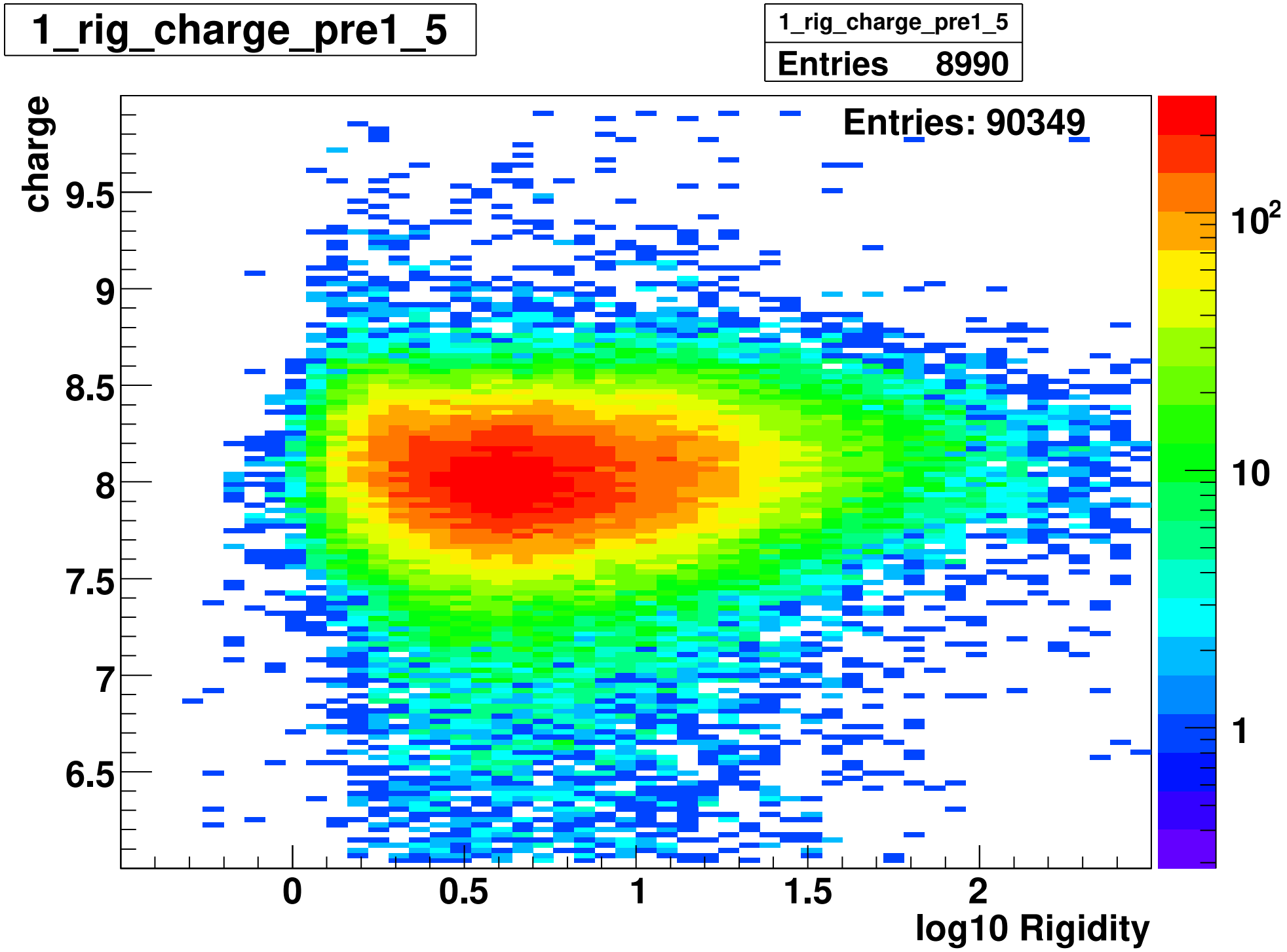

1_rig_charge_pre1_4
1_rig_charge_pre1_4_py_11
Entries 1037
Mean 6.043
χ² / ndf 30.77 / 34
Constant 49.53 ± 2.02
Mean 6.054 ± 0.007
Sigma 0.2103 ± 0.0060
charge

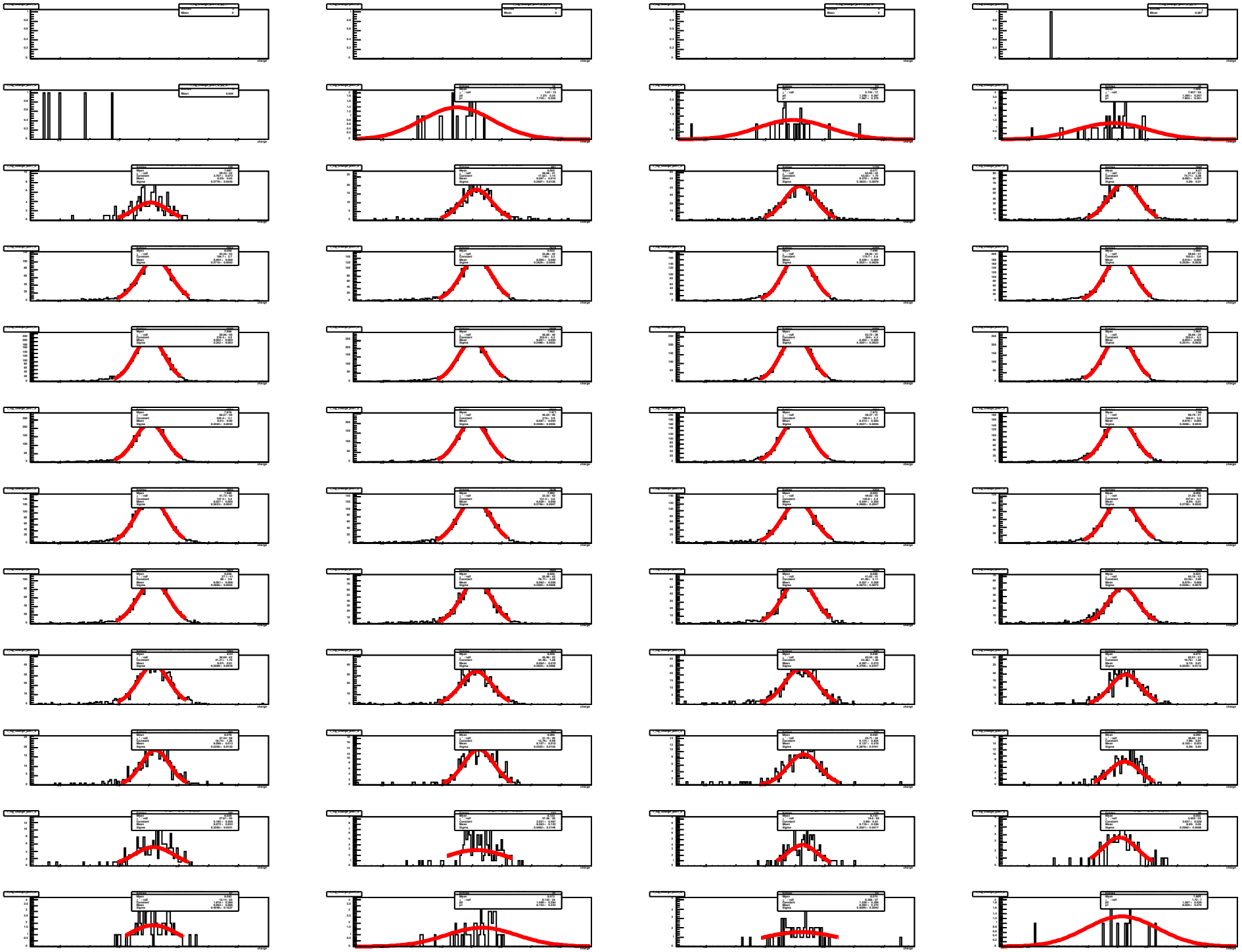
1_rig_charge_pre1_4 Carbon



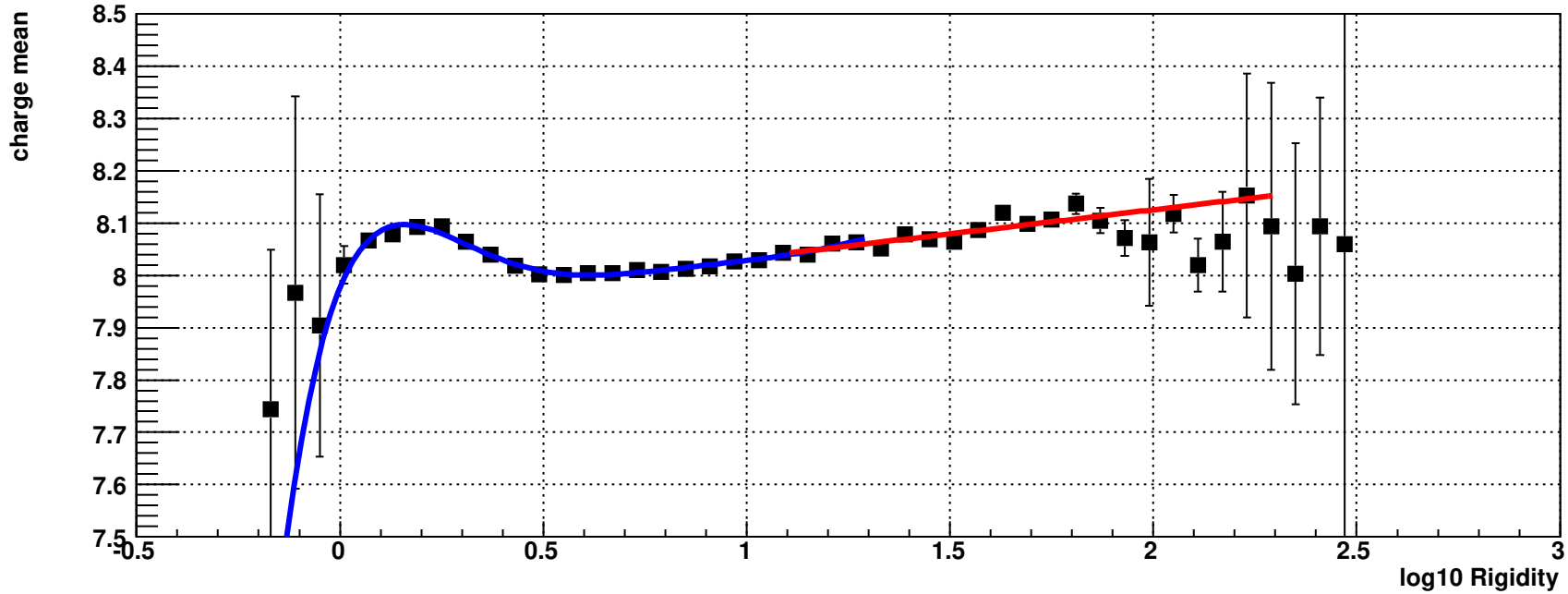
1_rig_charge_pre1_4 Carbon



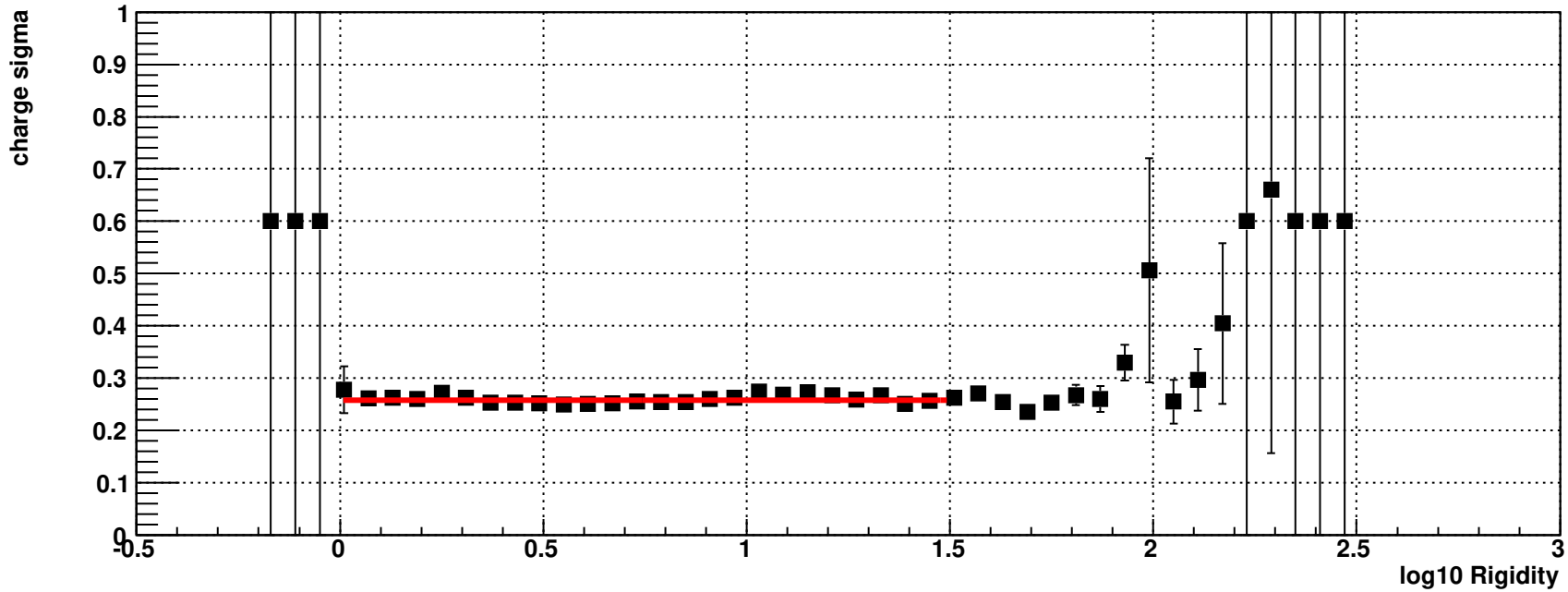

1_rig_charge_pre1_5
1_rig_charge_pre1_5
Entries 8990
Entries: 90349
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



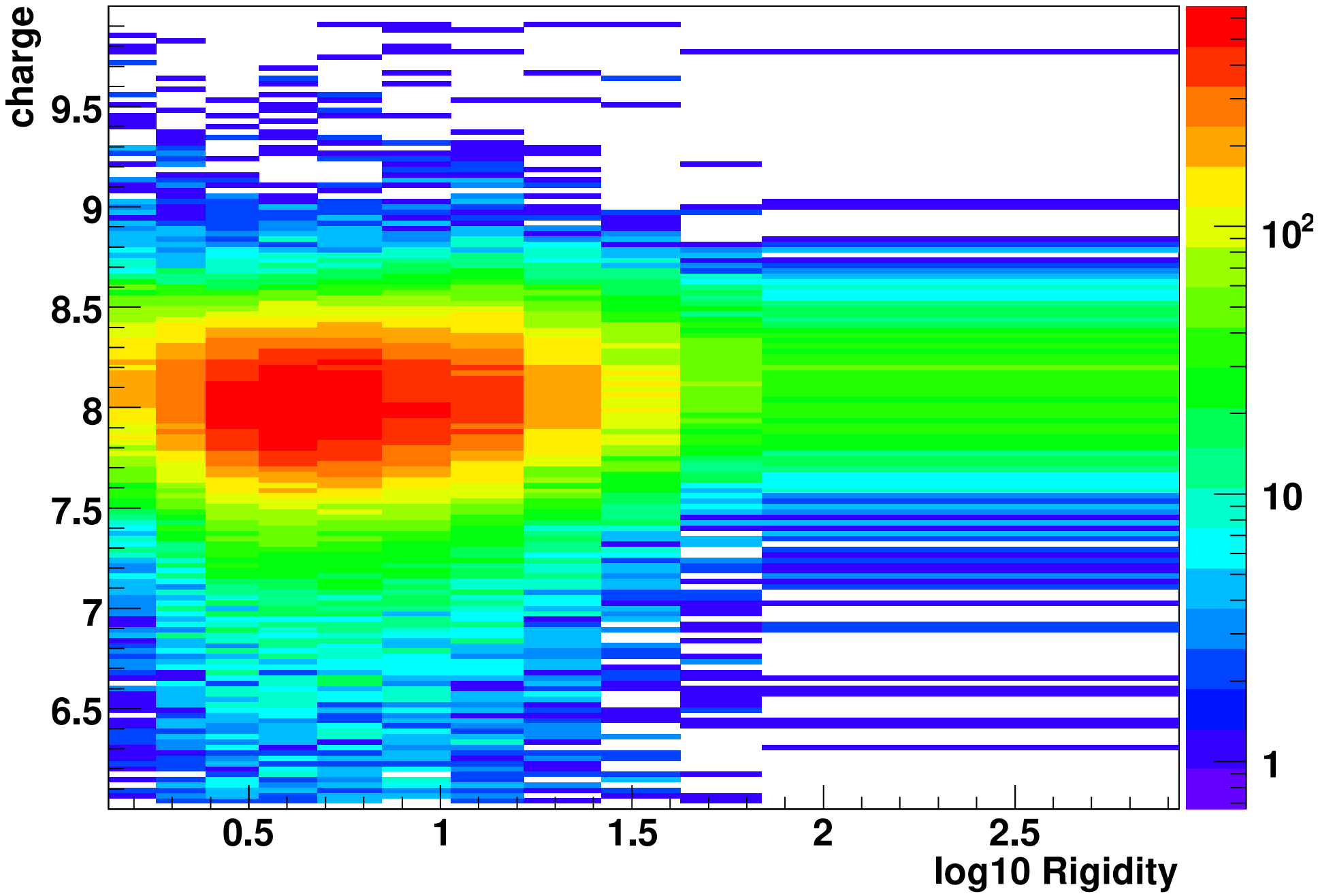
1_rig_charge_pre1_5_py_50

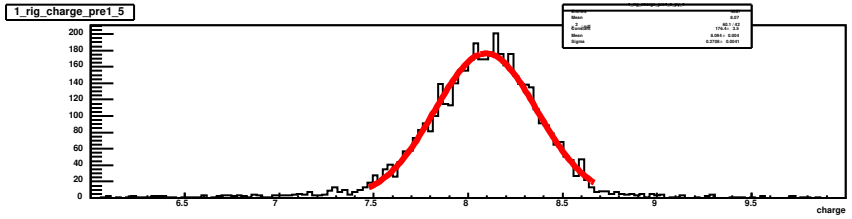


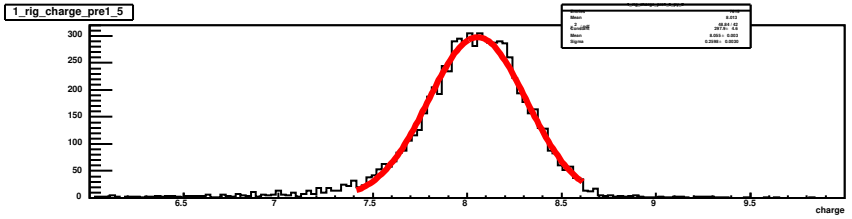
1_rig_charge_pre1_5_py_50

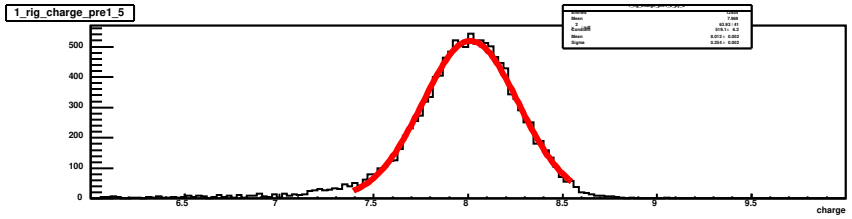


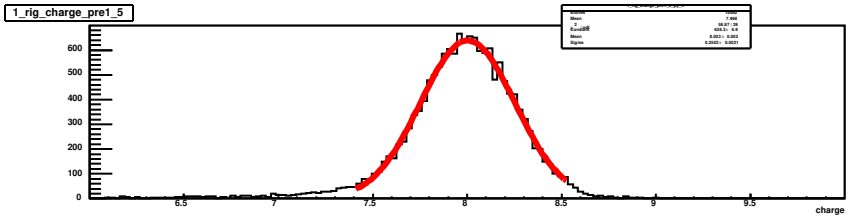
1_rig_charge_pre1_5

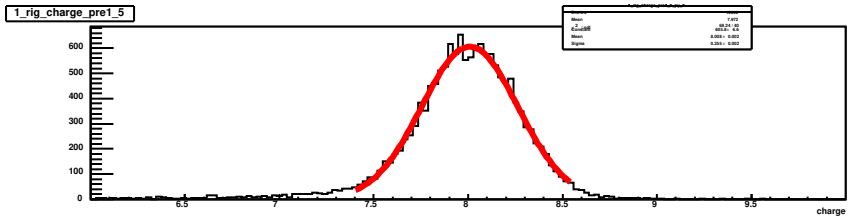


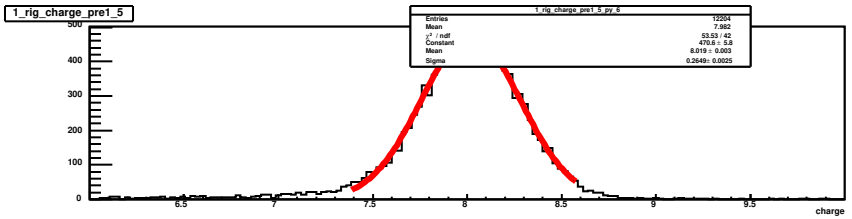

1_rig_charge_pre1_5
charge

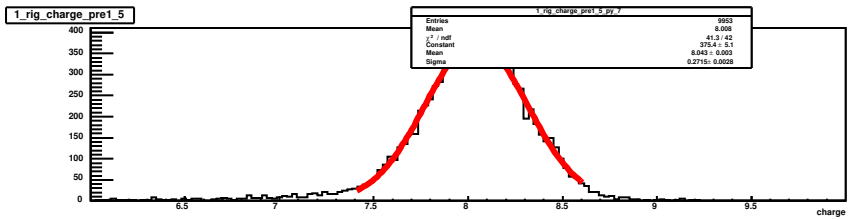

1_rig_charge_pre1_5
charge

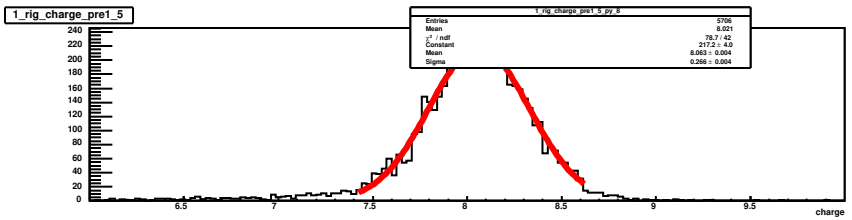

1_rig_charge_pre1_5
charge

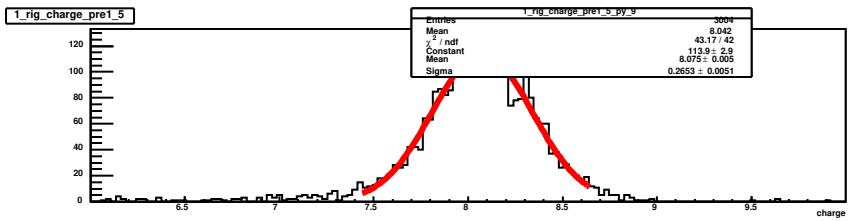

1_rig_charge_pre1_5
charge

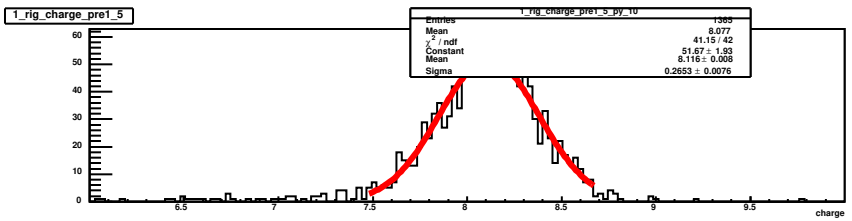

1_rig_charge_pre1_5
charge

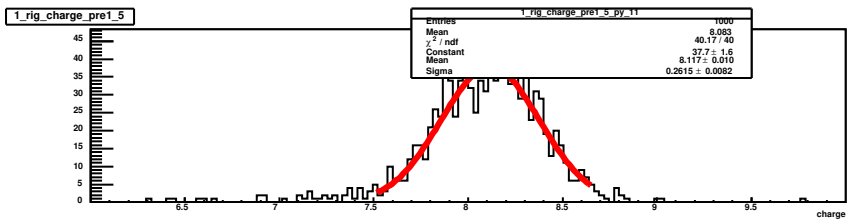

1_rig_charge_pre1_5
1_rig_charge_pre1_5_py_6
Entries 12304
Mean 7.982
χ² / ndf 53.53 / 42
Constant 470.6 ± 5.8
Mean 8.019 ± 0.003
Sigma 0.2649 ± 0.0025
charge


1_rig_charge_pre1_5
1_rig_charge_pre1_5_py_7
Entries 9953
Mean 8.008
χ² / ndf 41.3 / 42
Constant 375.4 ± 5.1
Mean 8.043 ± 0.003
Sigma 0.2715 ± 0.0028
charge

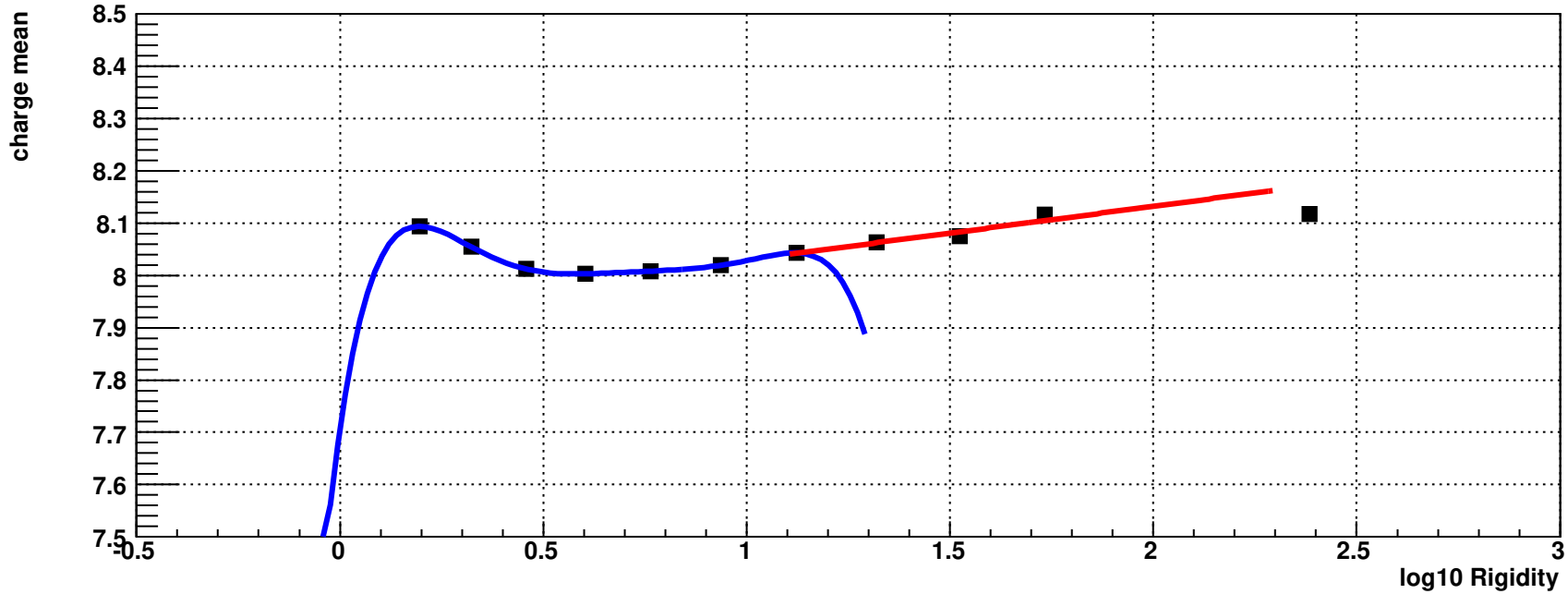

1_rig_charge_pre1_5
1_rig_charge_pre1_5_py_8
Entries 5706
Mean 8.021
χ² / ndf 78.7 / 42
Constant 217.2 ± 4.0
Mean 8.063 ± 0.004
Sigma 0.266 ± 0.004
charge


1_rig_charge_pre1_5
1_rig_charge_pre1_5_py_9
Entries 3004
Mean 8.042
χ² / ndf 43.17 / 42
Constant 113.9 ± 2.9
Mean 8.075 ± 0.005
Sigma 0.2653 ± 0.0051
charge

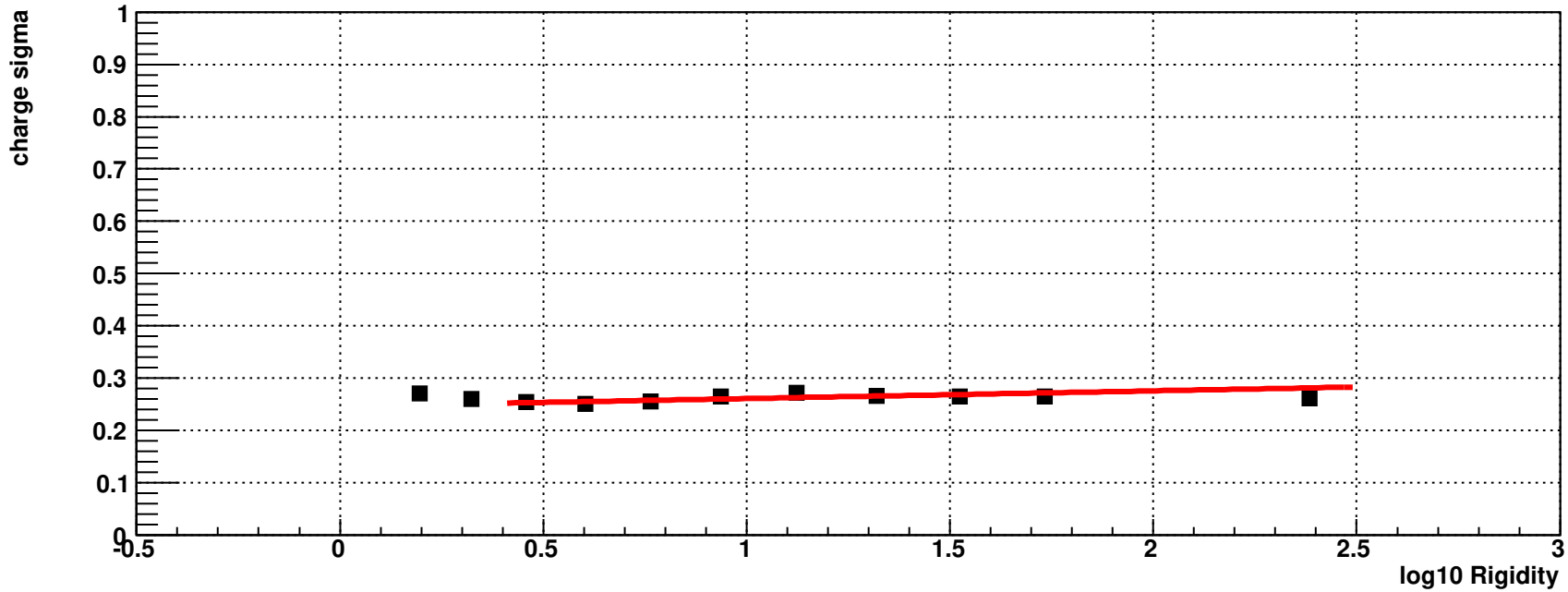

1_rig_charge_pre1_5
1_rig_charge_pre1_5_py_10
Entries 1385
Mean 8.077
χ² / ndf 41.15 / 42
Constant 51.67 ± 1.93
Mean 8.116 ± 0.008
Sigma 0.2653 ± 0.0076
charge

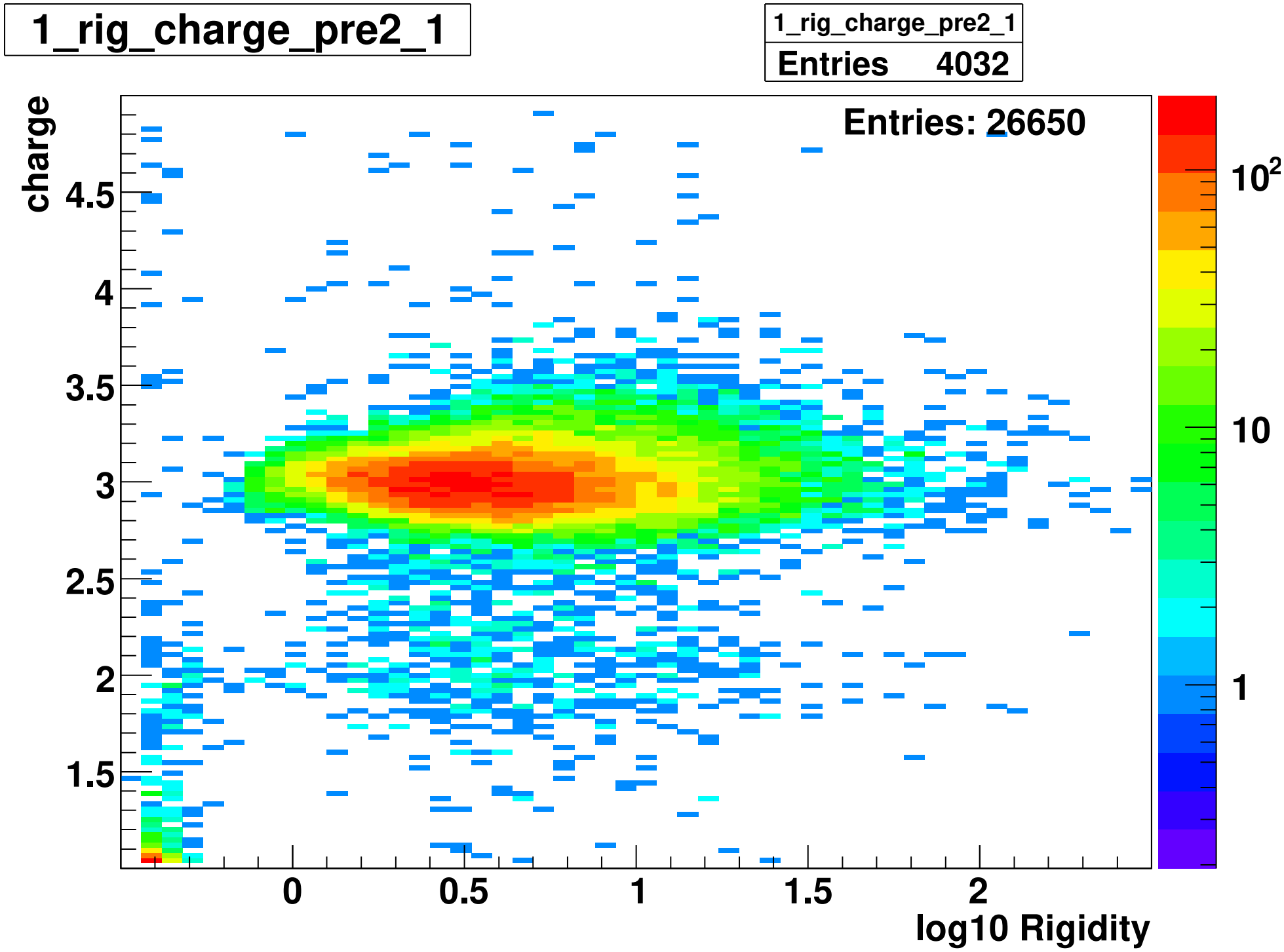

1_rig_charge_pre1_5
1_rig_charge_pre1_5_py_11
Entries 1000
Mean 8.083
χ² / ndf 40.17 / 40
Constant 37.7 ± 1.5
Mean 8.117 ± 0.010
Sigma 0.2615 ± 0.0082
charge

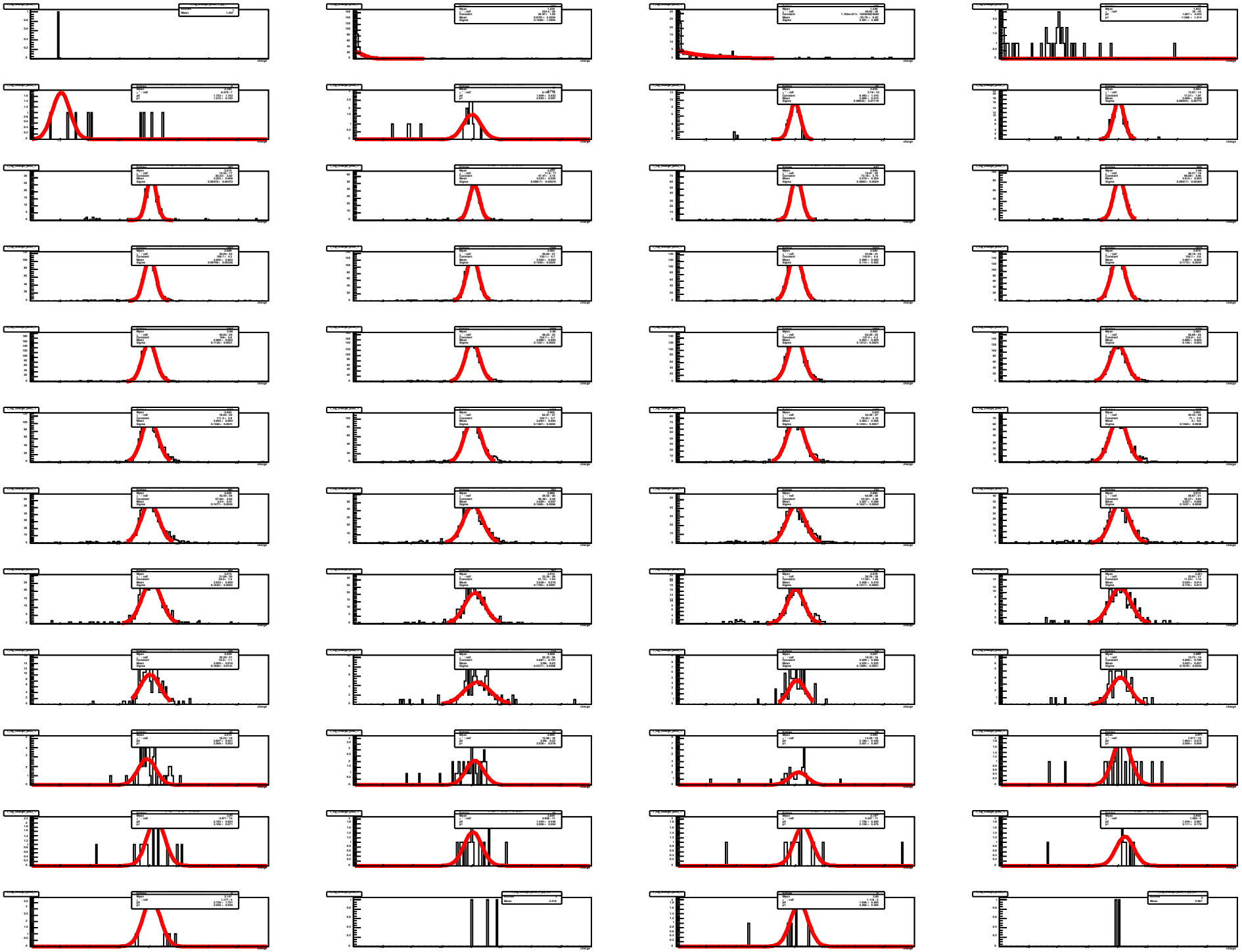
1_rig_charge_pre1_5_py_11



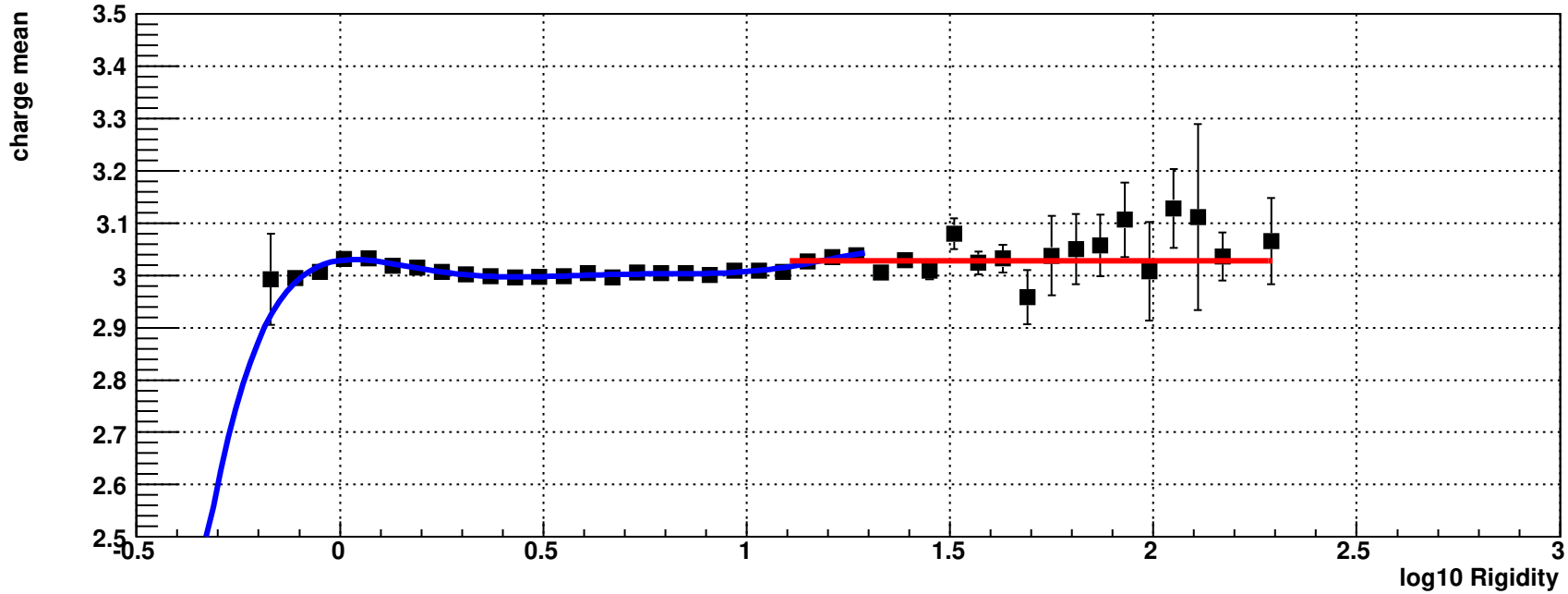
1_rig_charge_pre1_5_py_11



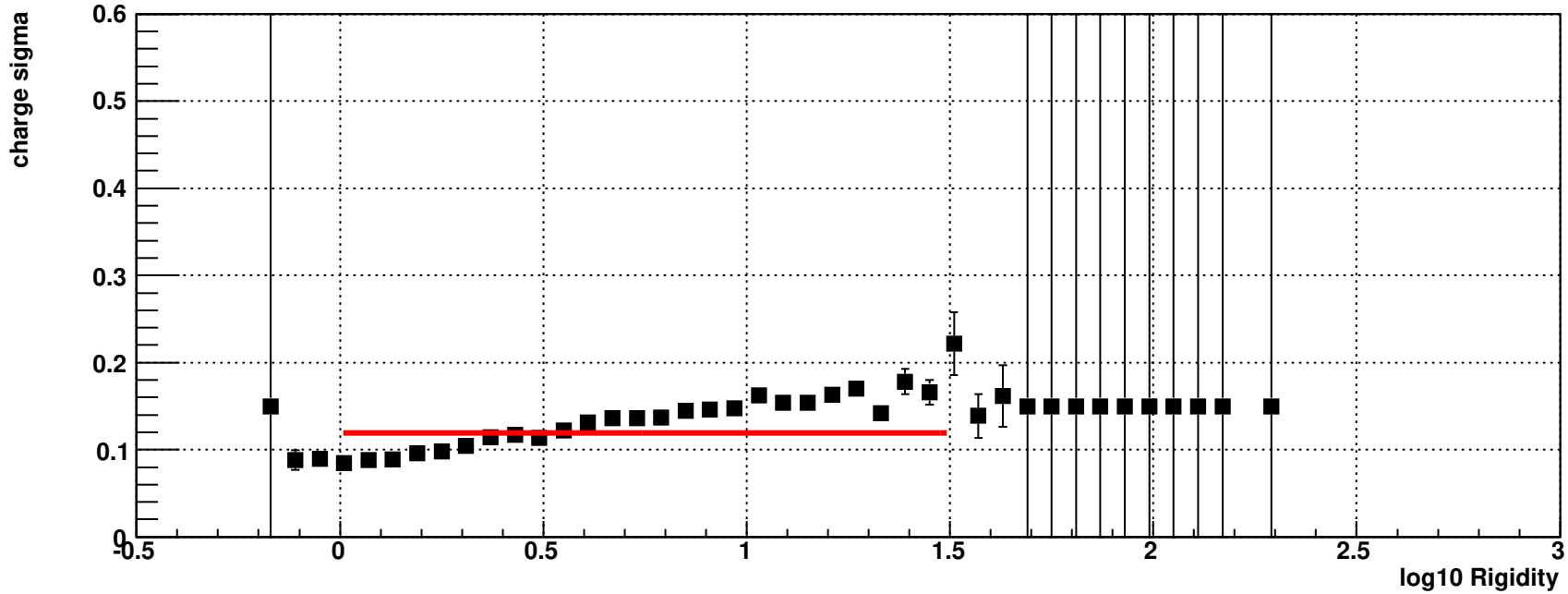

1_rig_charge_pre2_1
1_rig_charge_pre2_1
Entries 4032
Entries: 26650
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

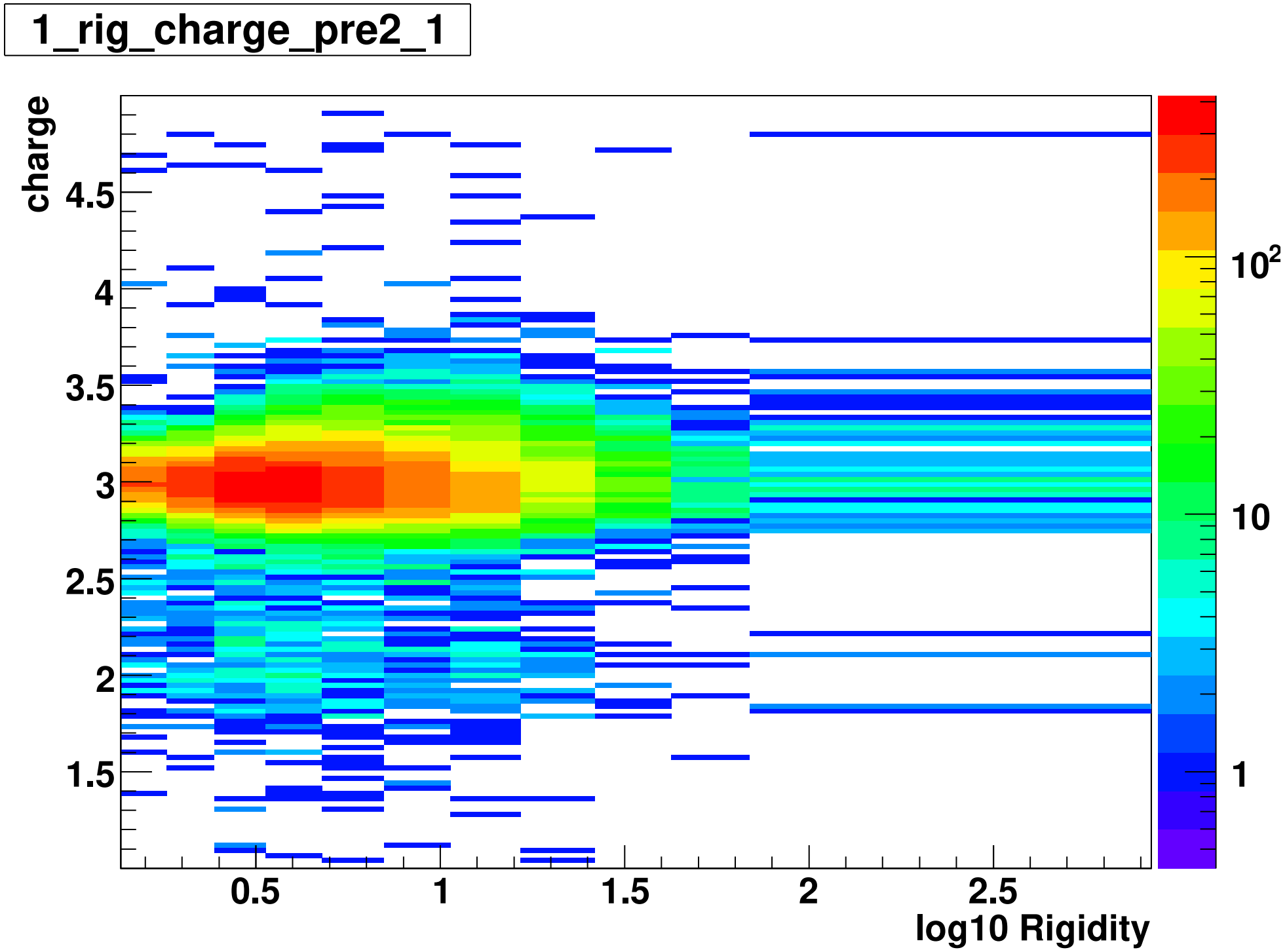


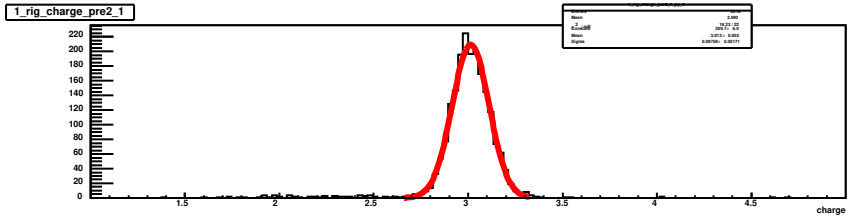
1_rig_charge_pre2_1 Lithium

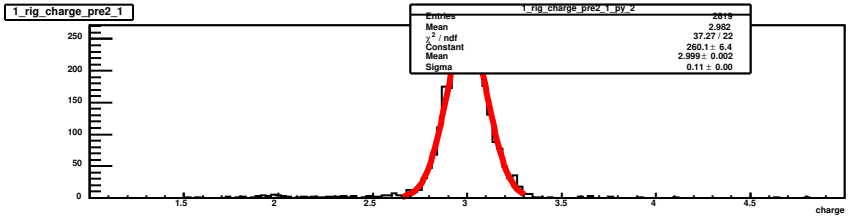


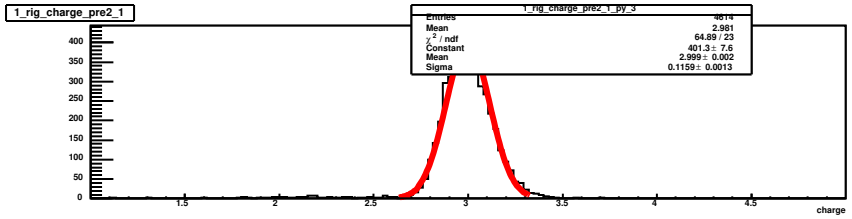
1_rig_charge_pre2_1 Lithium

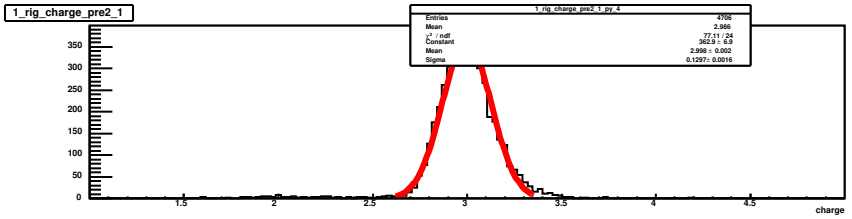


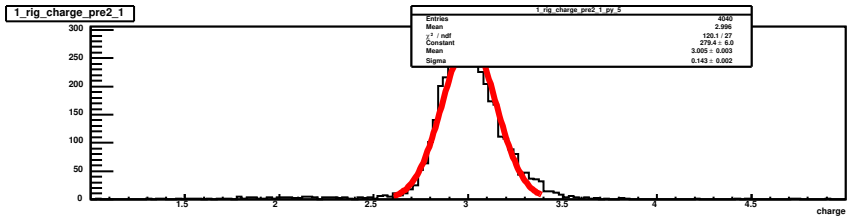

1_rig_charge_pre2_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

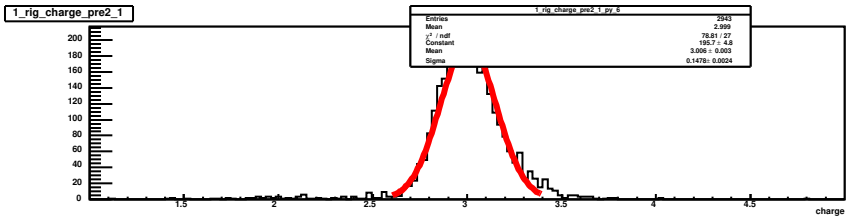

1_rig_charge_pre2_1
charge

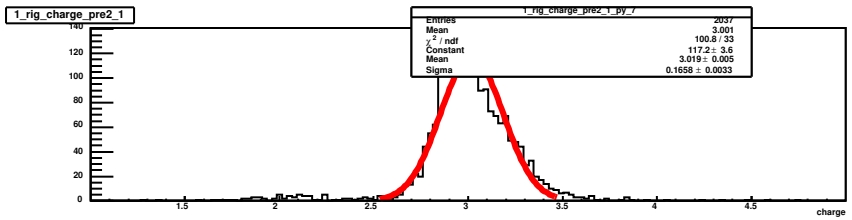

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_2
Entries 2819
Mean 2.992
χ² / ndf 37.27 / 22
Constant 260.1 ± 6.4
Mean 2.999 ± 0.002
Sigma 0.11 ± 0.00
charge

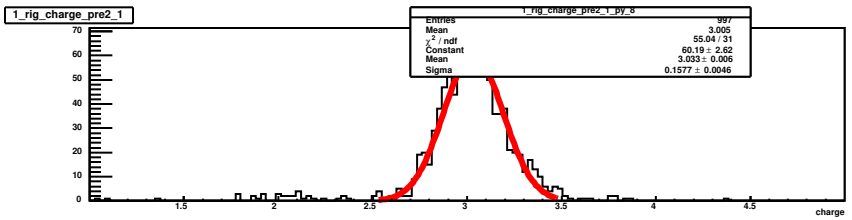

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_3
Entries 4814
Mean 2.981
χ² / ndf 64.89 / 23
Constant 401.3 ± 7.6
Mean 2.999 ± 0.002
Sigma 0.1159 ± 0.0013
charge

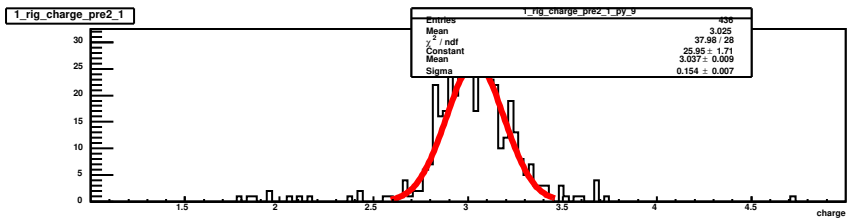

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_4
Entries 4706
Mean 2.986
χ² / ndf 77.11 / 24
Constant 362.9 ± 6.9
Mean 2.998 ± 0.002
Sigma 0.1297 ± 0.0016
charge

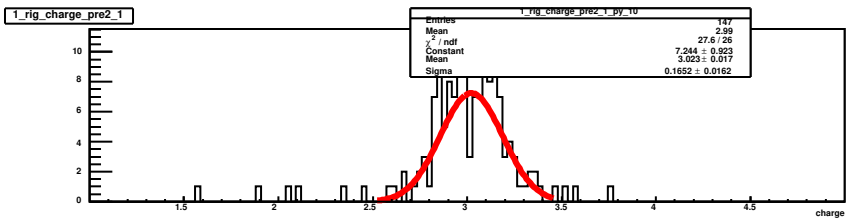

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_5
Entries 4040
Mean 2.996
χ² / ndf 120.1 / 27
Constant 279.4 ± 5.0
Mean 3.005 ± 0.003
Sigma 0.143 ± 0.002
charge

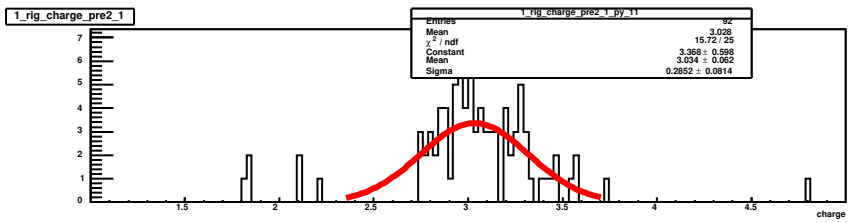

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_6
Entries 2943
Mean 2.999
χ² / ndf 78.81 / 27
Constant 195.7 ± 4.8
Mean 3.006 ± 0.003
Sigma 0.1478 ± 0.0024
charge


1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_7
Entries 2037
Mean 3.001
χ² / ndf 100.8 / 33
Constant 117.2 ± 3.6
Mean 3.019 ± 0.005
Sigma 0.1658 ± 0.0033
charge

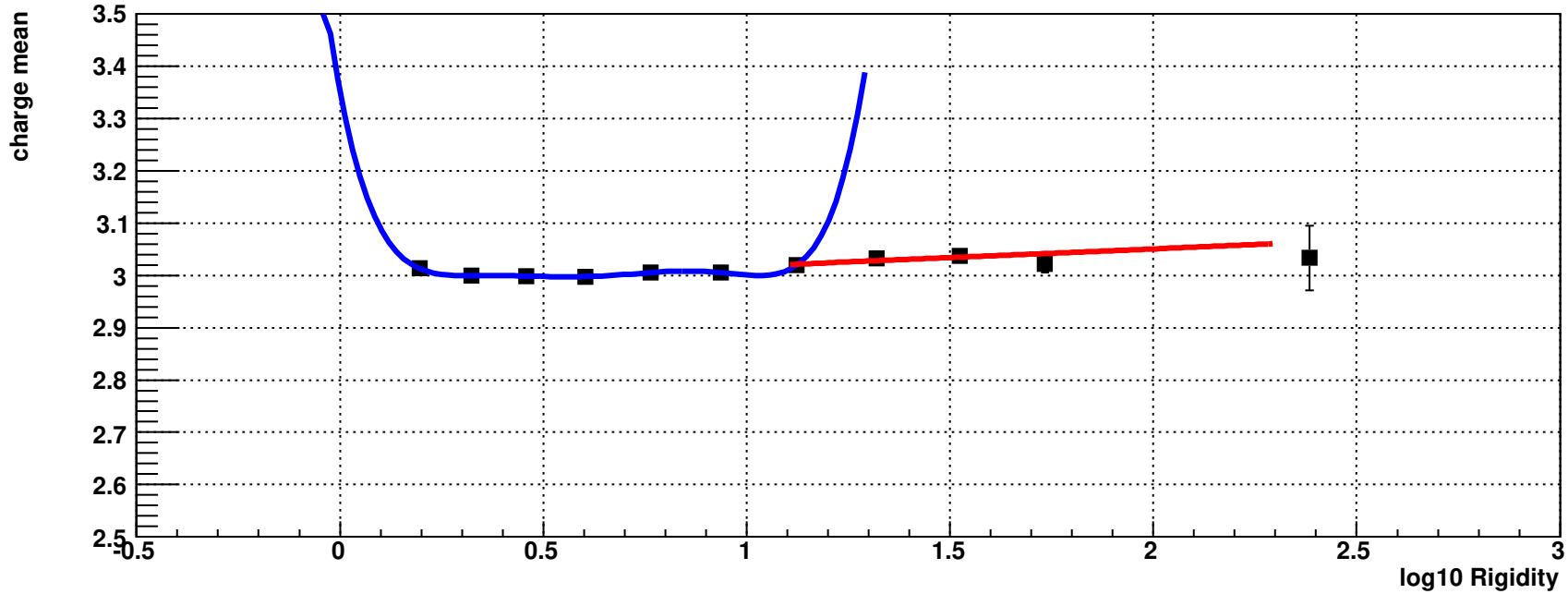

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_8
Entries 997
Mean 3.005
χ² / ndf 55.04 / 31
Constant 60.19 ± 2.62
Mean 3.033 ± 0.006
Sigma 0.1577 ± 0.0046
charge


1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_9
Entries 436
Mean 3.025
χ² / ndf 37.98 / 28
Constant 25.95 ± 1.71
Mean 3.037 ± 0.009
Sigma 0.154 ± 0.007
charge

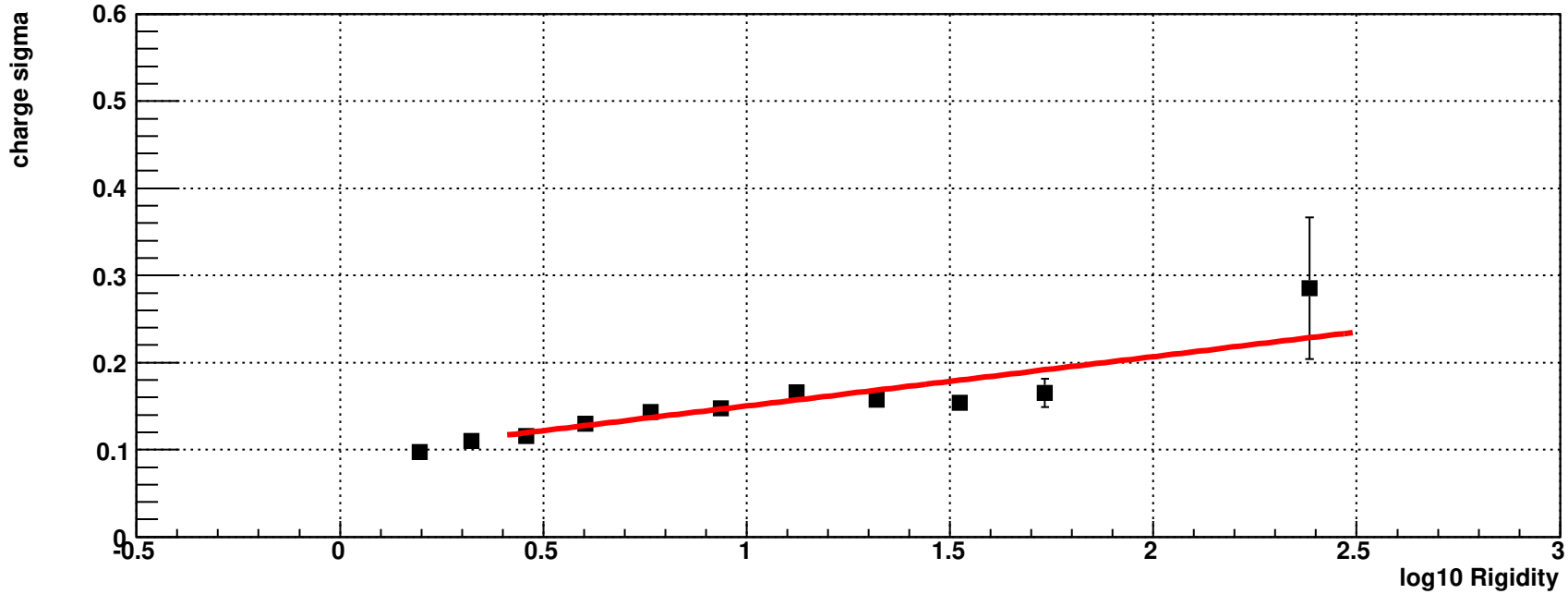

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_10
Entries 147
Mean 2.99
χ² / ndf 27.6 / 26
Constant 7.244 ± 0.923
Mean 3.023 ± 0.017
Sigma 0.1652 ± 0.0162
charge

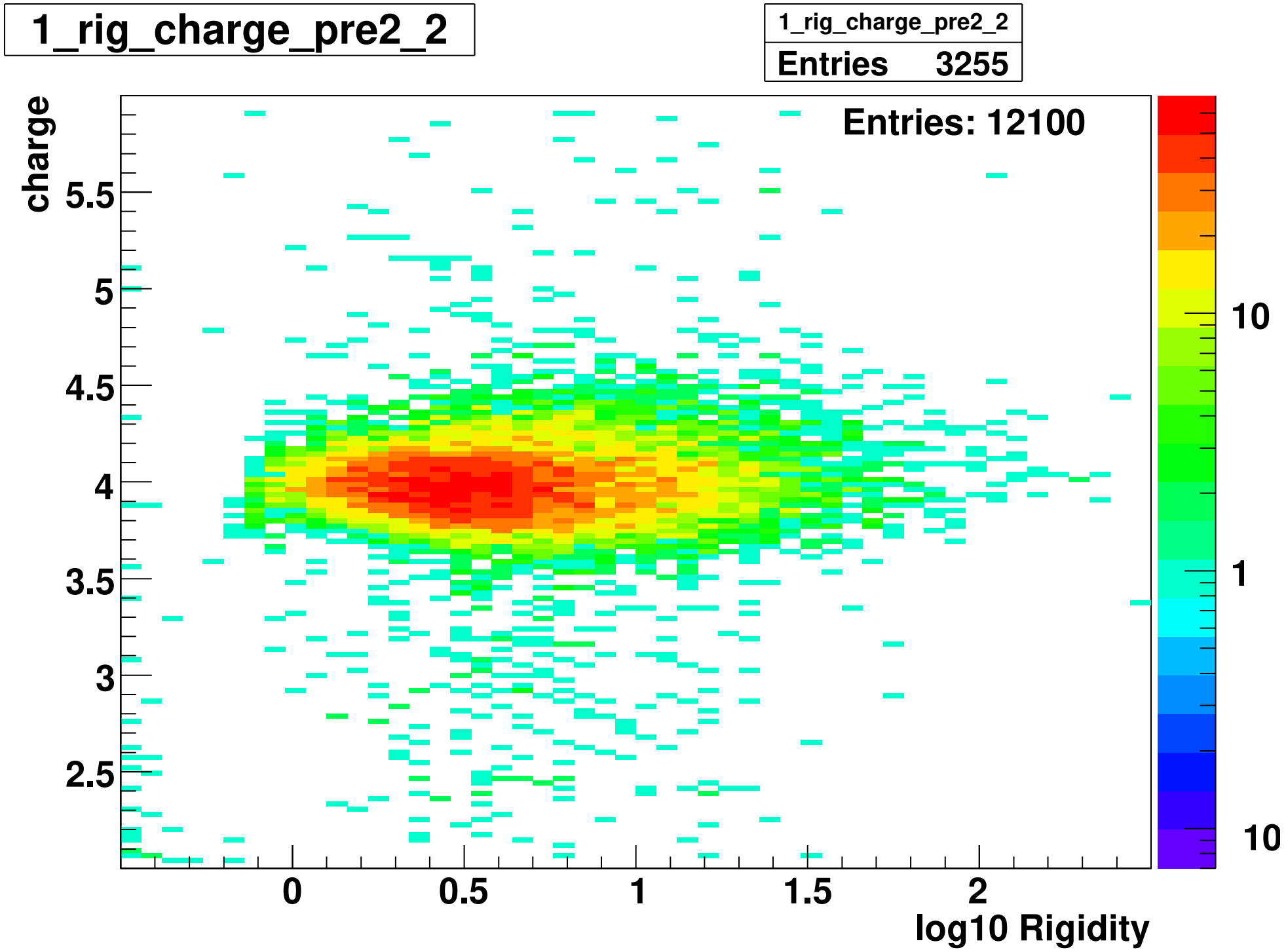

1_rig_charge_pre2_1
1_rig_charge_pre2_1_py_11
Entries 92
Mean 3.028
χ² / ndf 15.72 / 25
Constant 3.368 ± 0.598
Mean 3.034 ± 0.062
Sigma 0.2852 ± 0.0814
charge

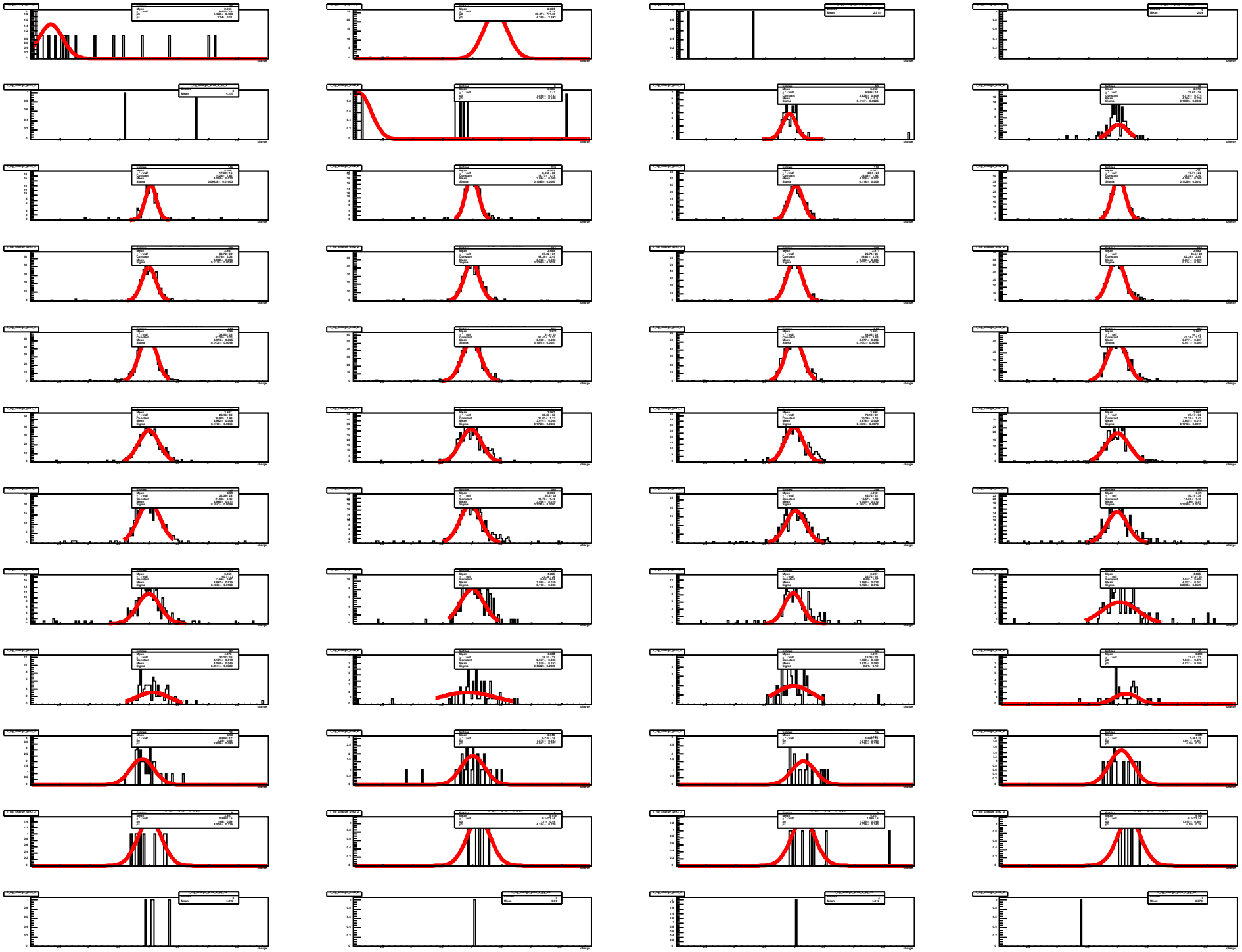
1_rig_charge_pre2_1 Lithium



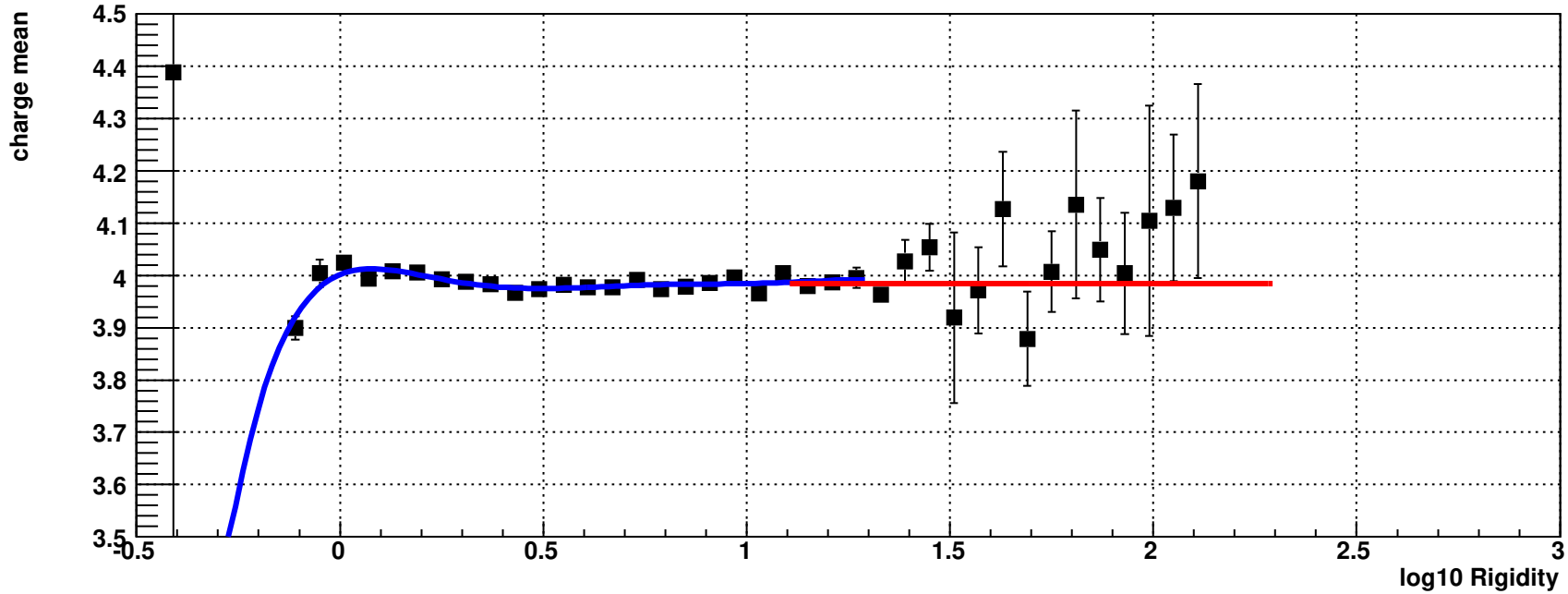
1_rig_charge_pre2_1 Lithium



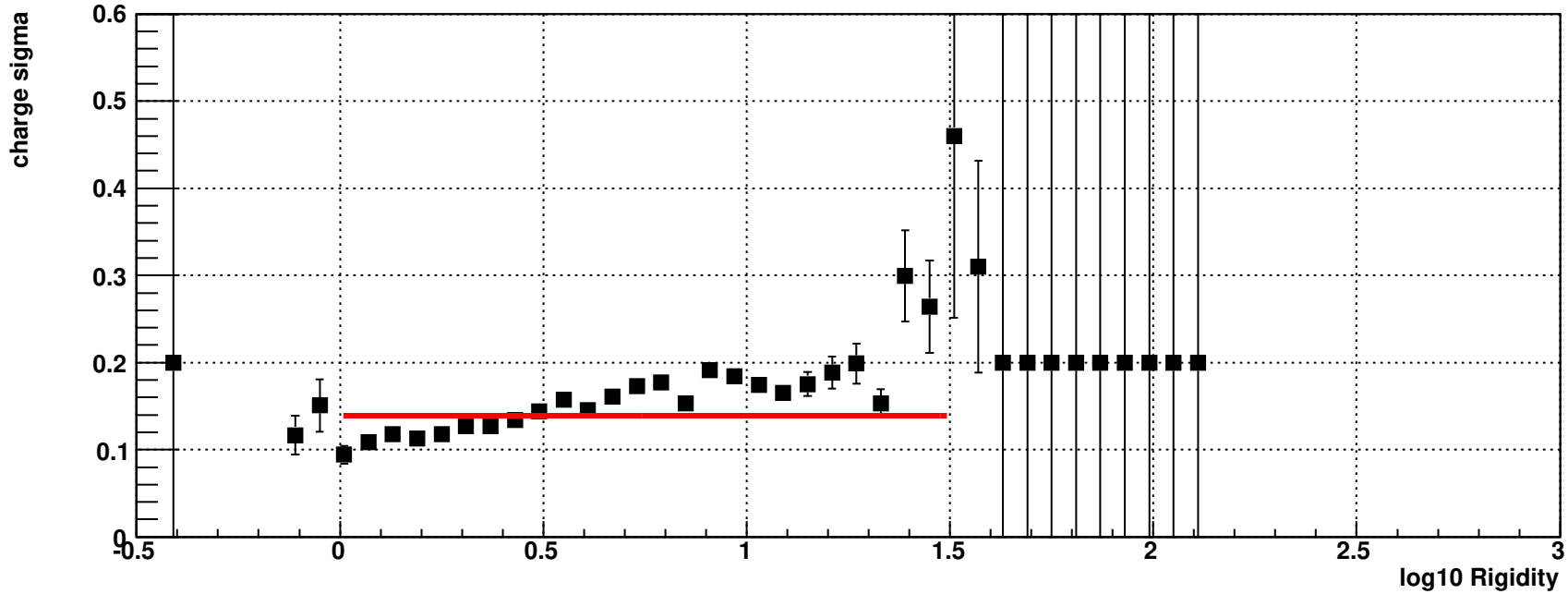

1_rig_charge_pre2_2
1_rig_charge_pre2_2
Entries 3255
Entries: 12100
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

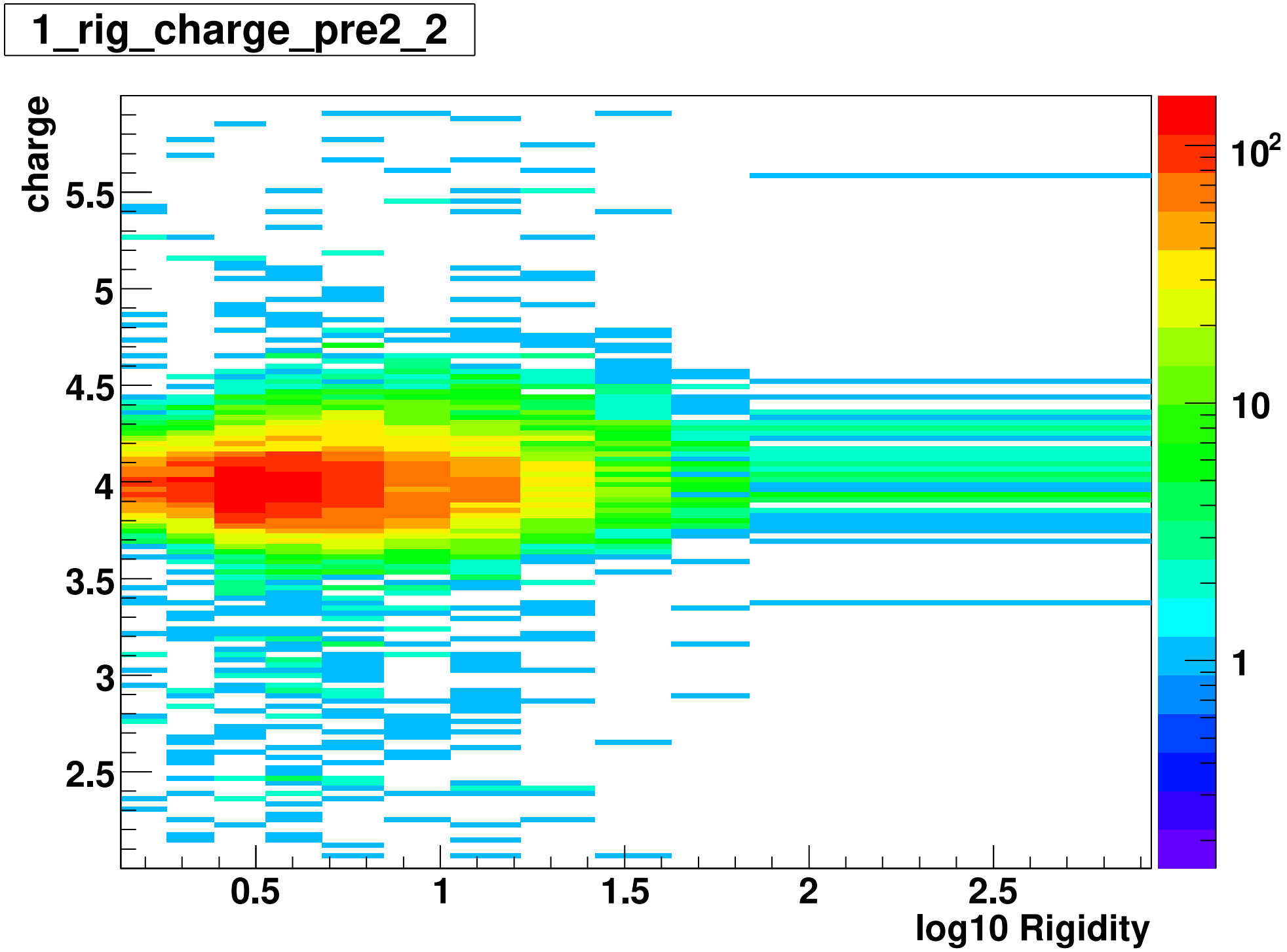


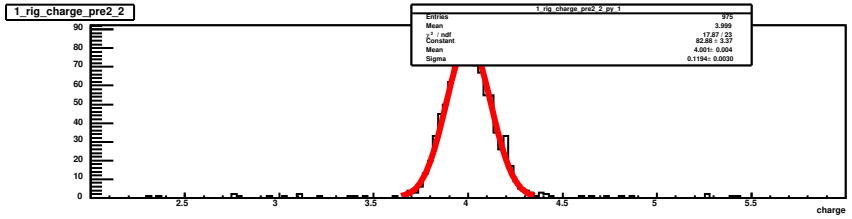
1_rig_charge_pre2_2 Beryllium

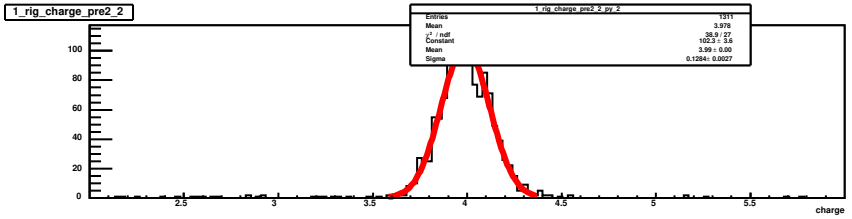


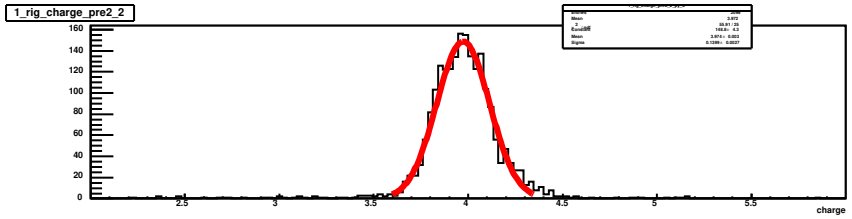
1_rig_charge_pre2_2 Beryllium

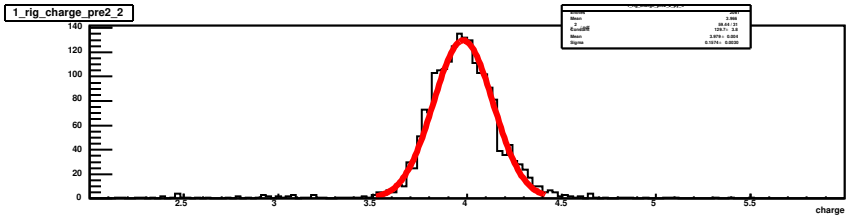


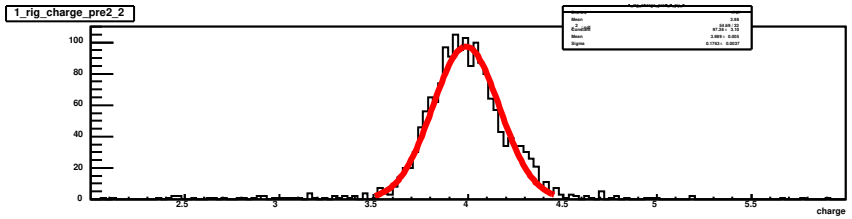

1_rig_charge_pre2_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

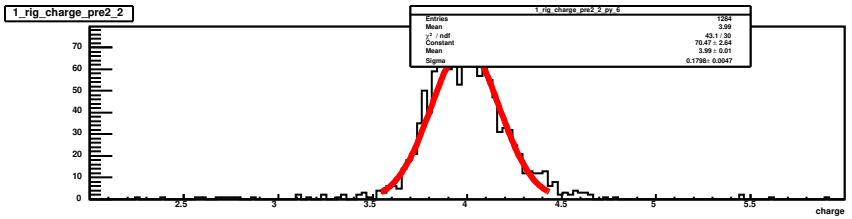

1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_1
Entries 975
Mean 3.999
χ² / ndf 17.87 / 23
Constant 82.86 ± 3.37
Mean 4.001 ± 0.004
Sigma 0.1194 ± 0.0030
charge

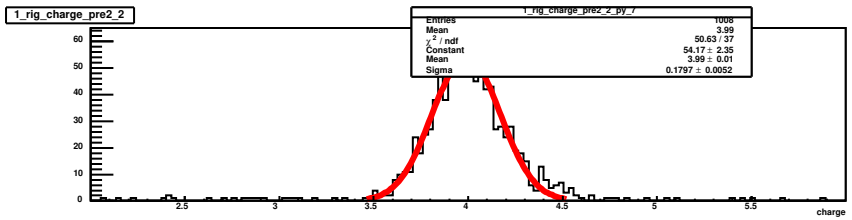

1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_2
Entries 1311
Mean 3.978
χ² / ndf 39.9 / 37
Constant 102.3 ± 3.6
Mean 3.99 ± 0.00
Sigma 0.1294 ± 0.0027
charge

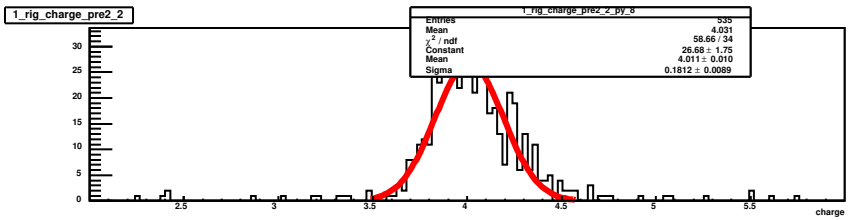

1_rig_charge_pre2_2
charge

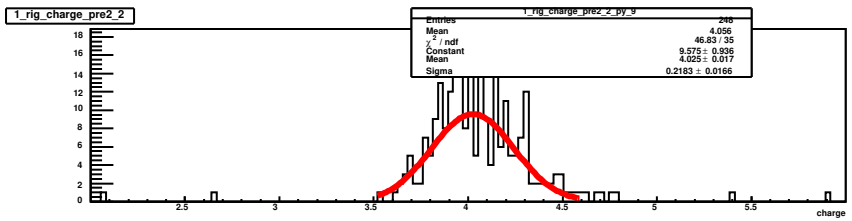

1_rig_charge_pre2_2
charge

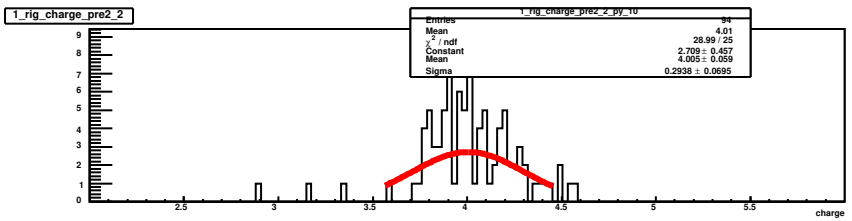

1_rig_charge_pre2_2
charge

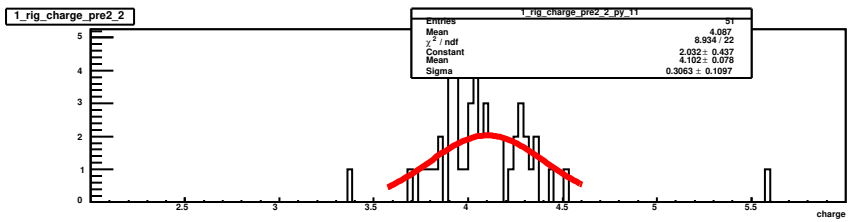

1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_6
Entries 1284
Mean 3.99
χ² / ndf 43.1 / 30
Constant 70.47 ± 2.64
Mean 3.99 ± 0.01
Sigma 0.1798 ± 0.0047
charge


1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_7
Entries 1008
Mean 3.99
χ² / ndf 50.63 / 37
Constant 54.17 ± 2.35
Mean 3.99 ± 0.01
Sigma 0.1797 ± 0.0052
charge

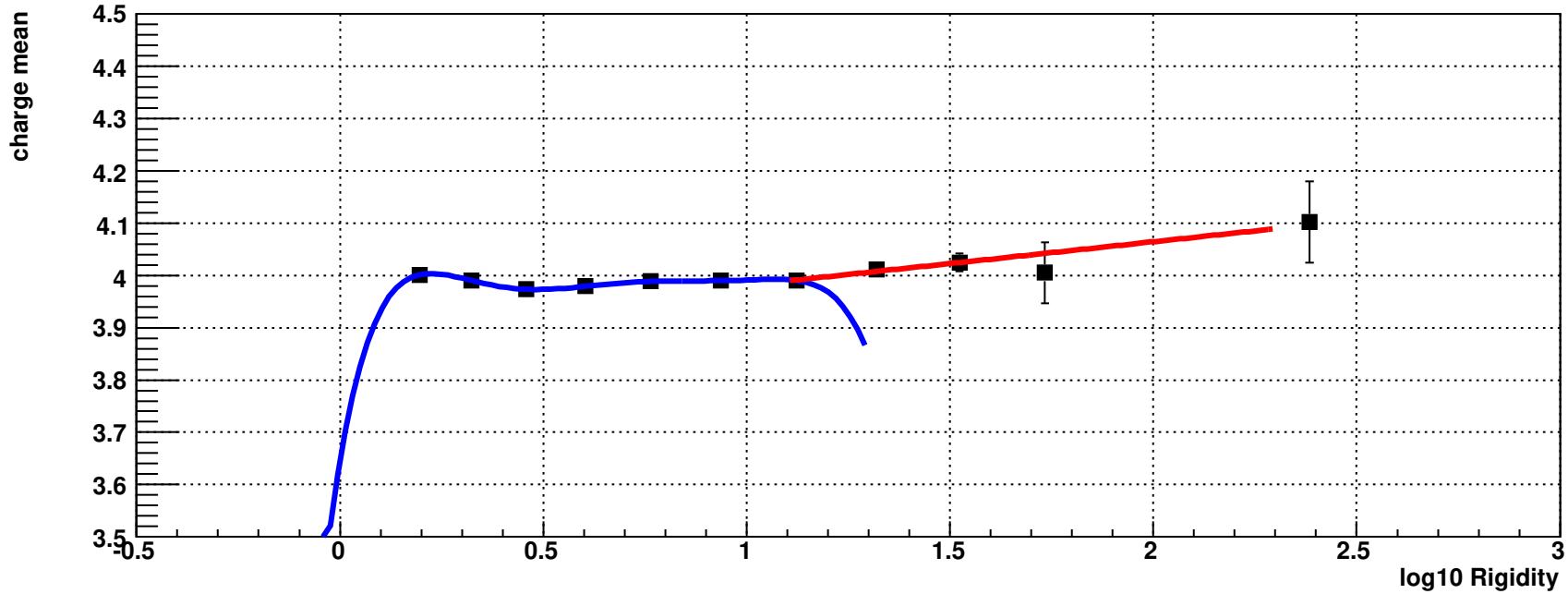

1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_8
Entries 535
Mean 4.031
χ² / ndf 58.66 / 34
Constant 26.68 ± 1.75
Mean 4.011 ± 0.010
Sigma 0.1812 ± 0.0089
charge


1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_9
Entries 246
Mean 4.056
χ² / ndf 46.83 / 35
Constant 9.575 ± 0.936
Mean 4.025 ± 0.017
Sigma 0.2183 ± 0.0166
charge

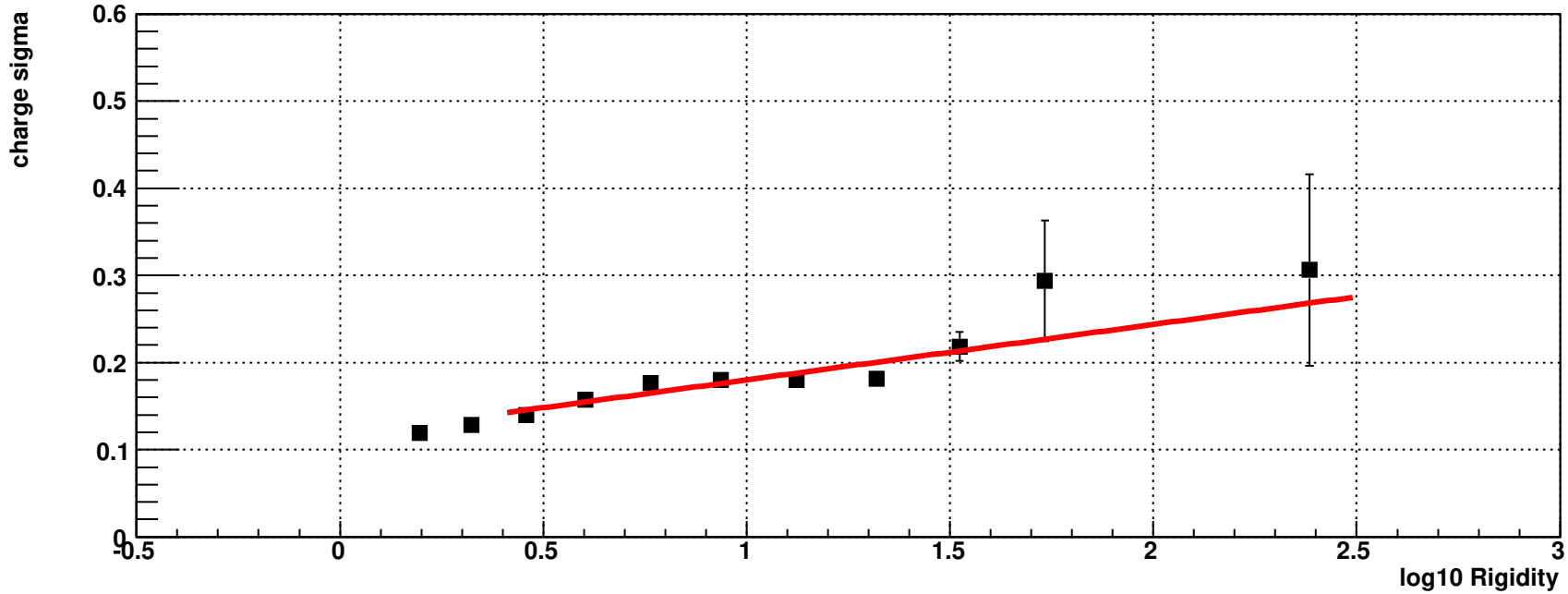

1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_10
Entries 94
Mean 4.01
χ² / ndf 28.99 / 25
Constant 2.709 ± 0.457
Mean 4.005 ± 0.059
Sigma 0.2938 ± 0.0695
charge

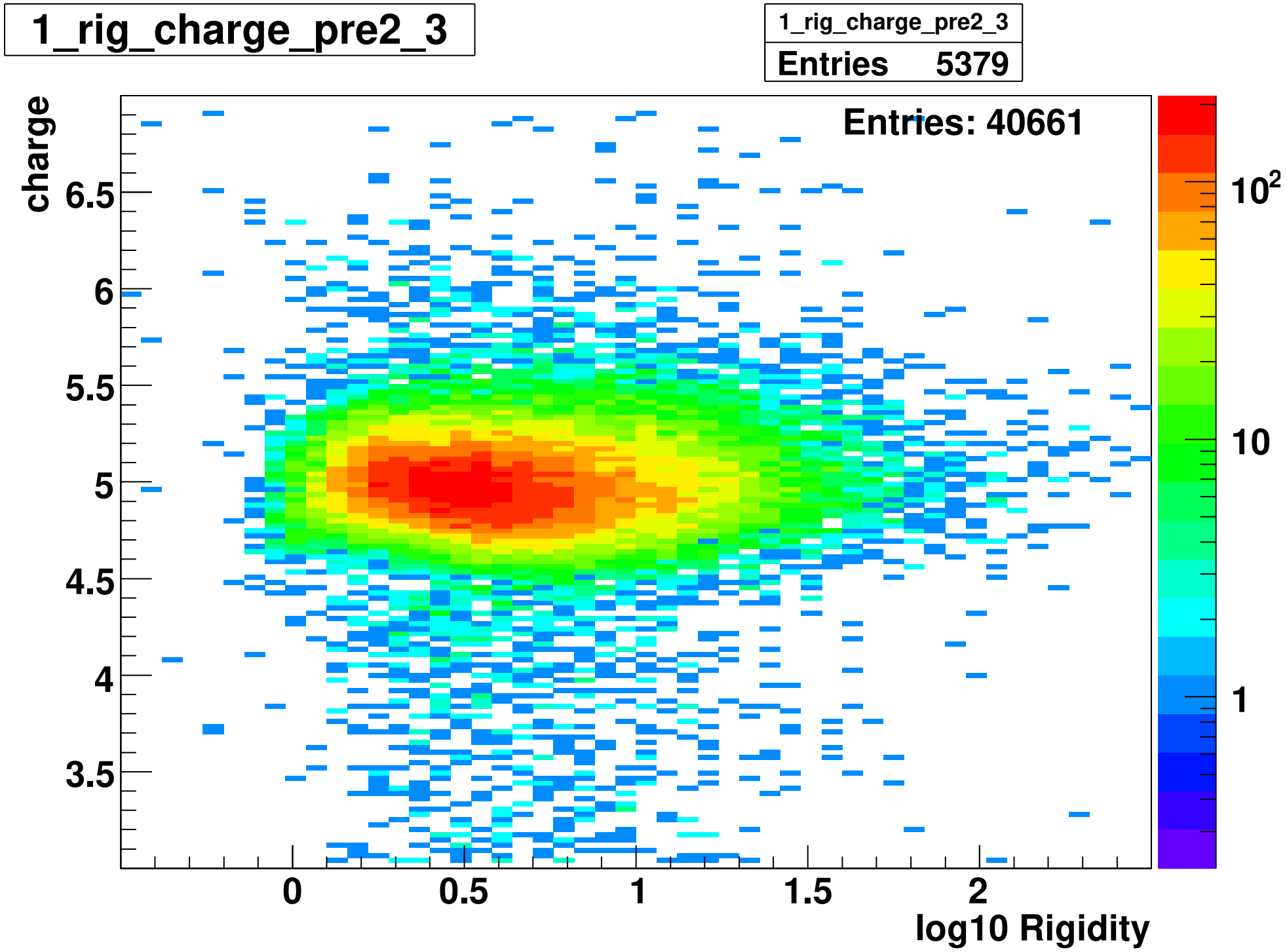

1_rig_charge_pre2_2
1_rig_charge_pre2_2_py_11
Entries 51
Mean 4.087
χ² / ndf 8.934 / 22
Constant 2.032 ± 0.437
Mean 4.102 ± 0.078
Sigma 0.3063 ± 0.1097
charge

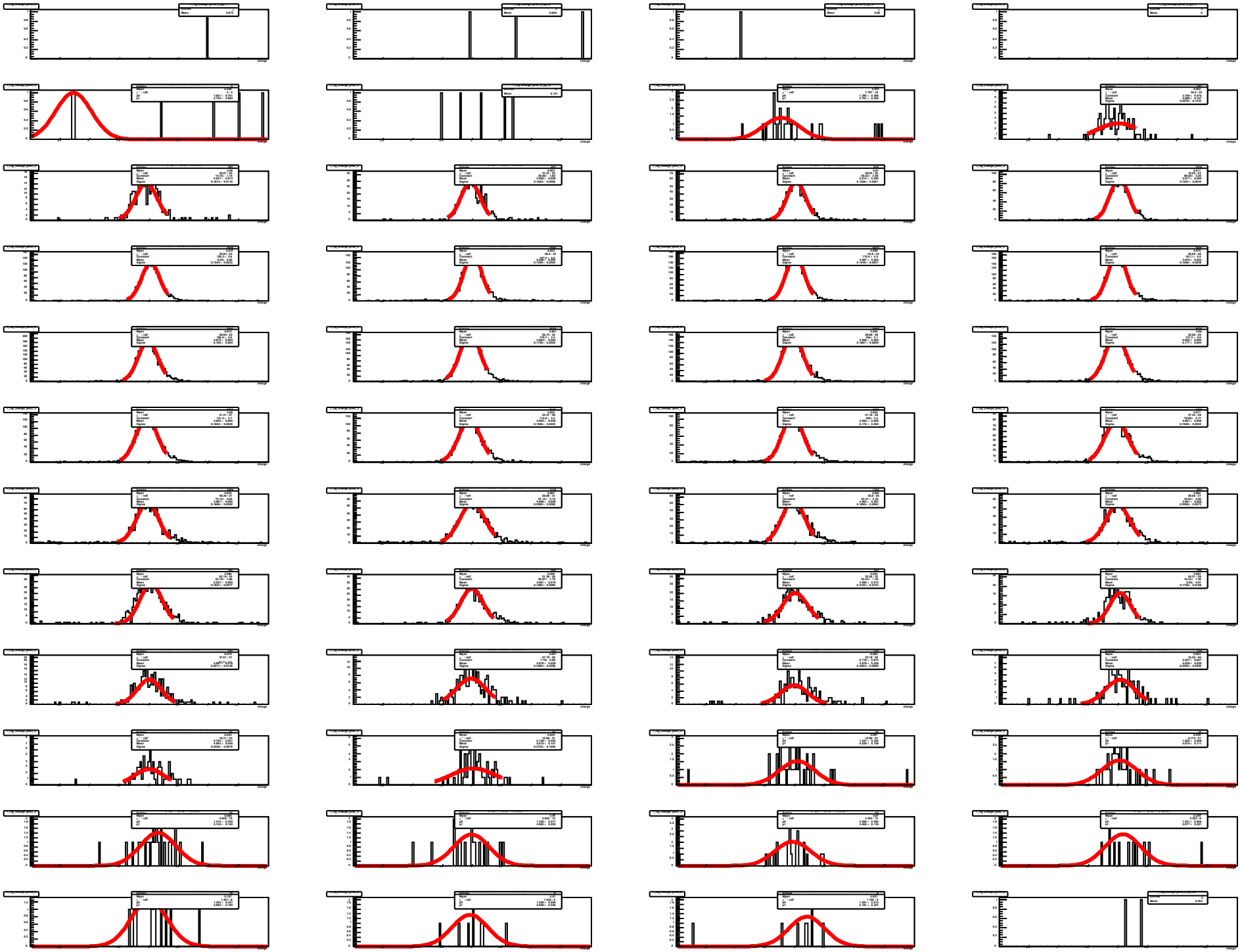
1_rig_charge_pre2_2 Beryllium



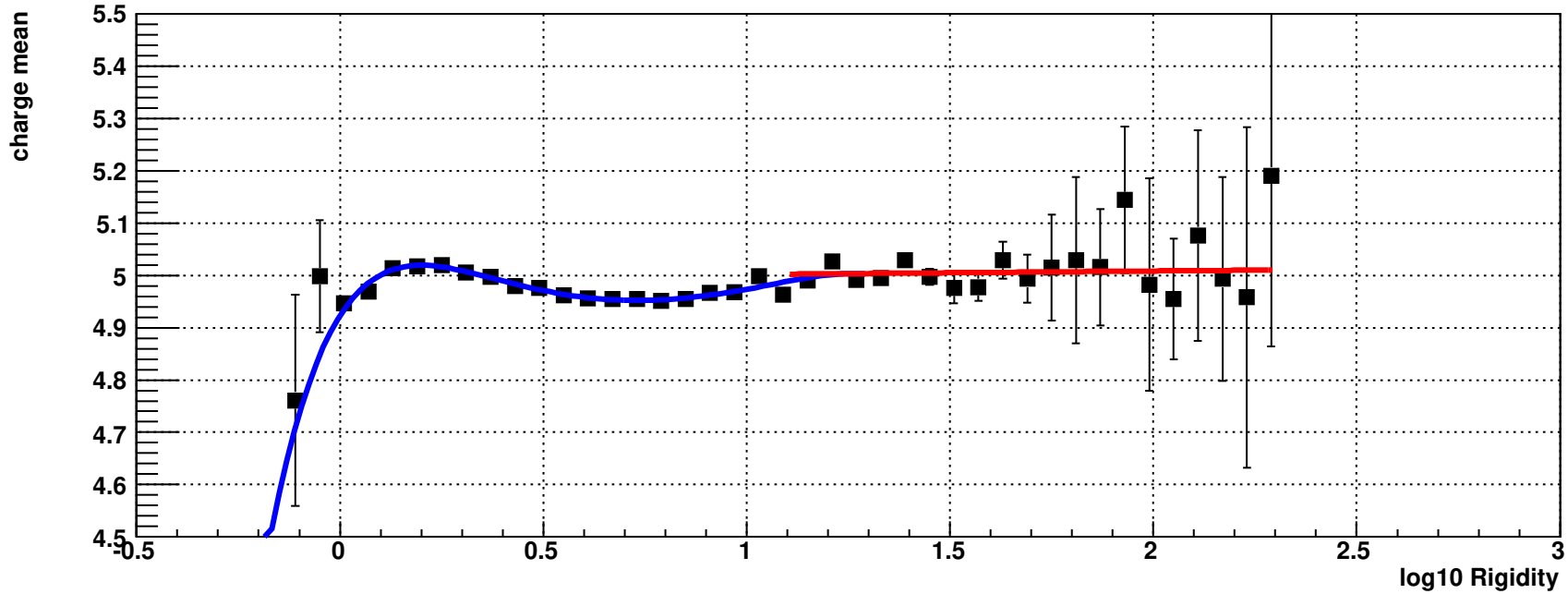
1_rig_charge_pre2_2 Beryllium



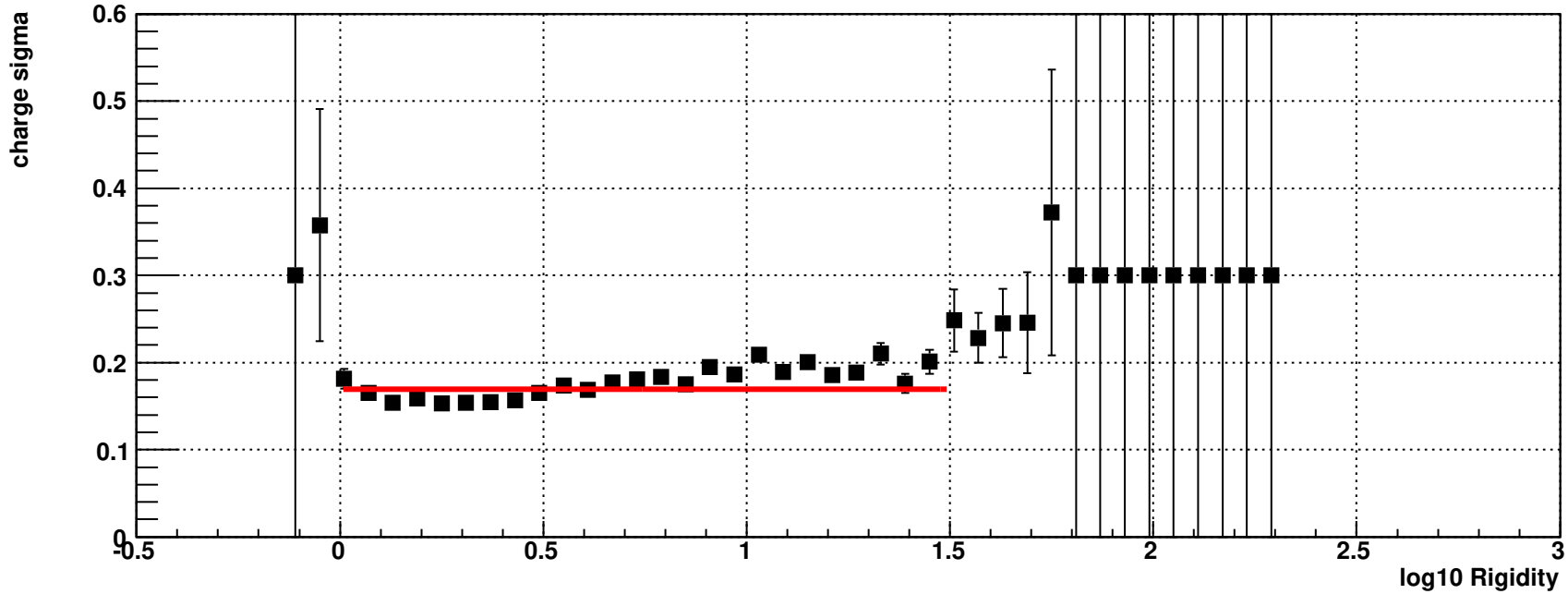

1_rig_charge_pre2_3
1_rig_charge_pre2_3
Entries 5379
Entries: 40661
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

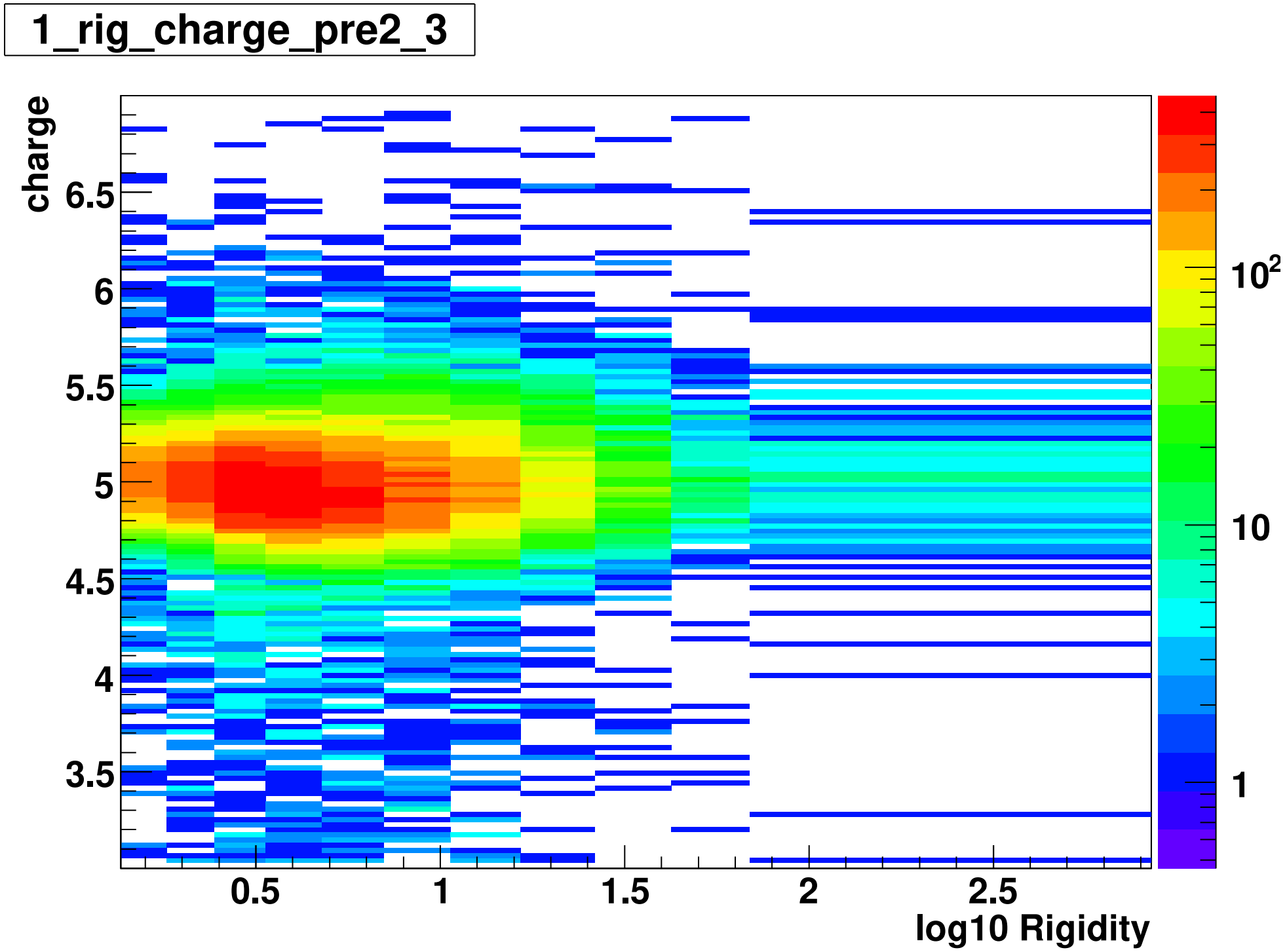


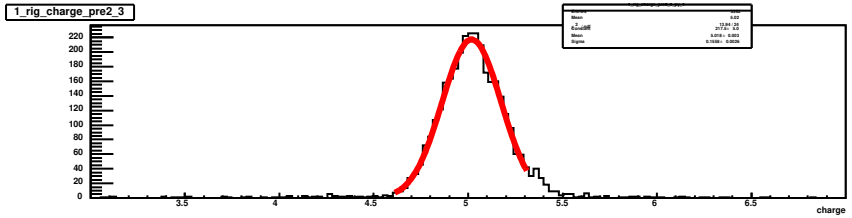
1_rig_charge_pre2_3 Boron

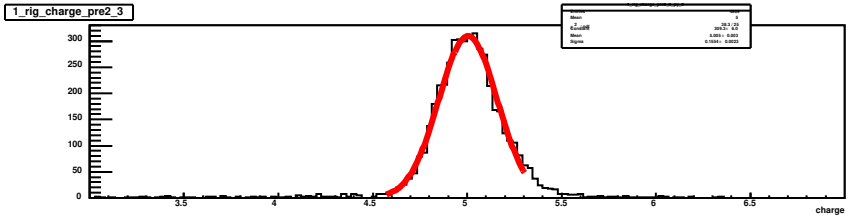


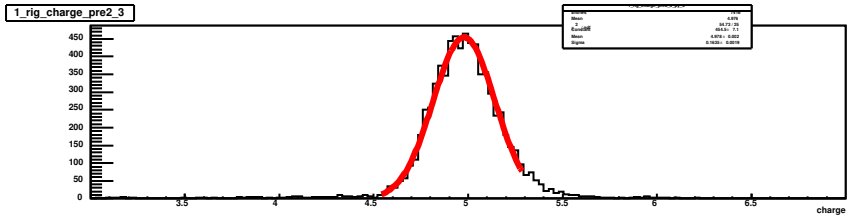
1_rig_charge_pre2_3 Boron

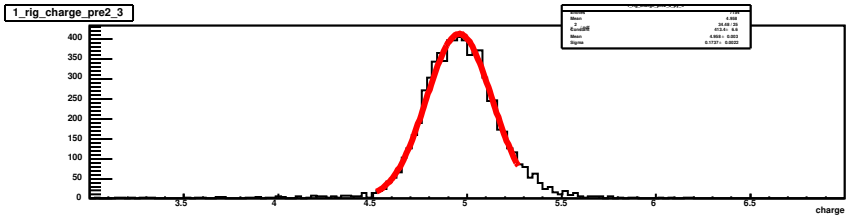


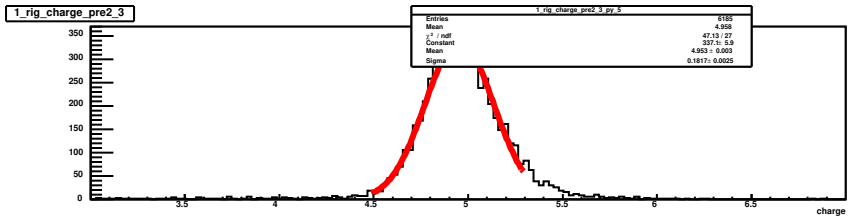

1_rig_charge_pre2_3
charge
6.5
6
5.5
5
4.5
4
3.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

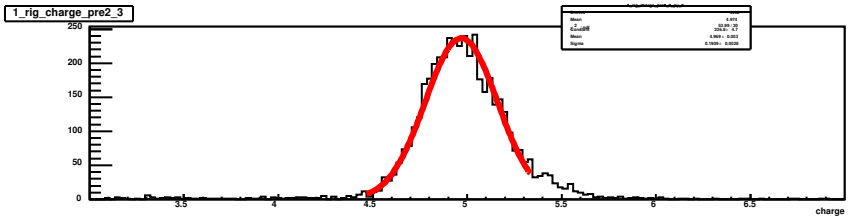

1_rig_charge_pre2_3
charge

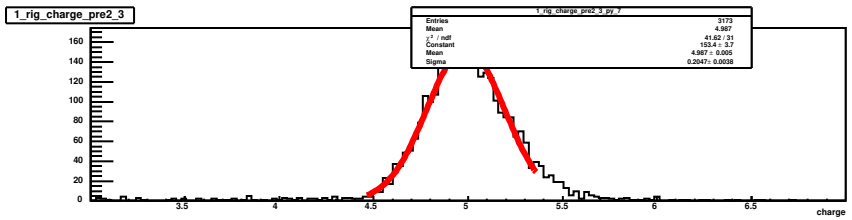

1_rig_charge_pre2_3
charge

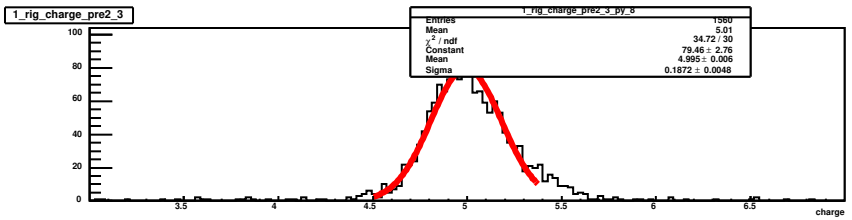

1_rig_charge_pre2_3
charge

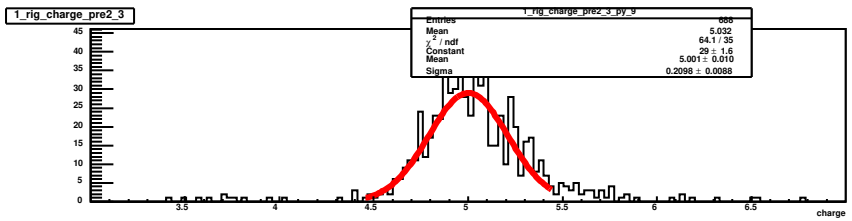

1_rig_charge_pre2_3
charge

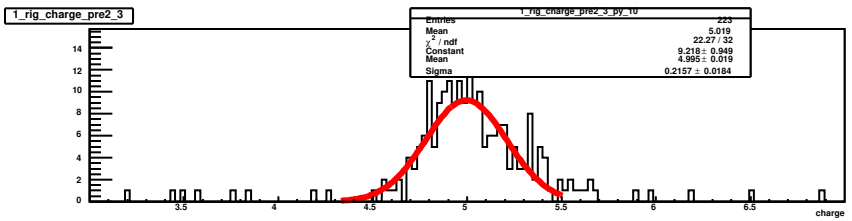

1_rig_charge_pre2_3
1_rig_charge_pre2_3_py_5
Entries 6185
Mean 4.958
χ² / ndf 47.13 / 27
Constant 337 ± 5.9
Mean 4.953 ± 0.003
Sigma 0.1817 ± 0.0025
charge

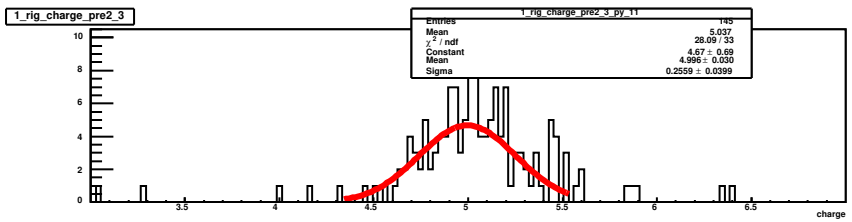

1_rig_charge_pre2_3
charge


1_rig_charge_pre2_3
1_rig_charge_pre2_3_py_7
Entries 3173
Mean 4.987
χ² / ndf 41.62 / 31
Constant 153.4 ± 3.7
Mean 4.987 ± 0.005
Sigma 0.2047 ± 0.0038
charge

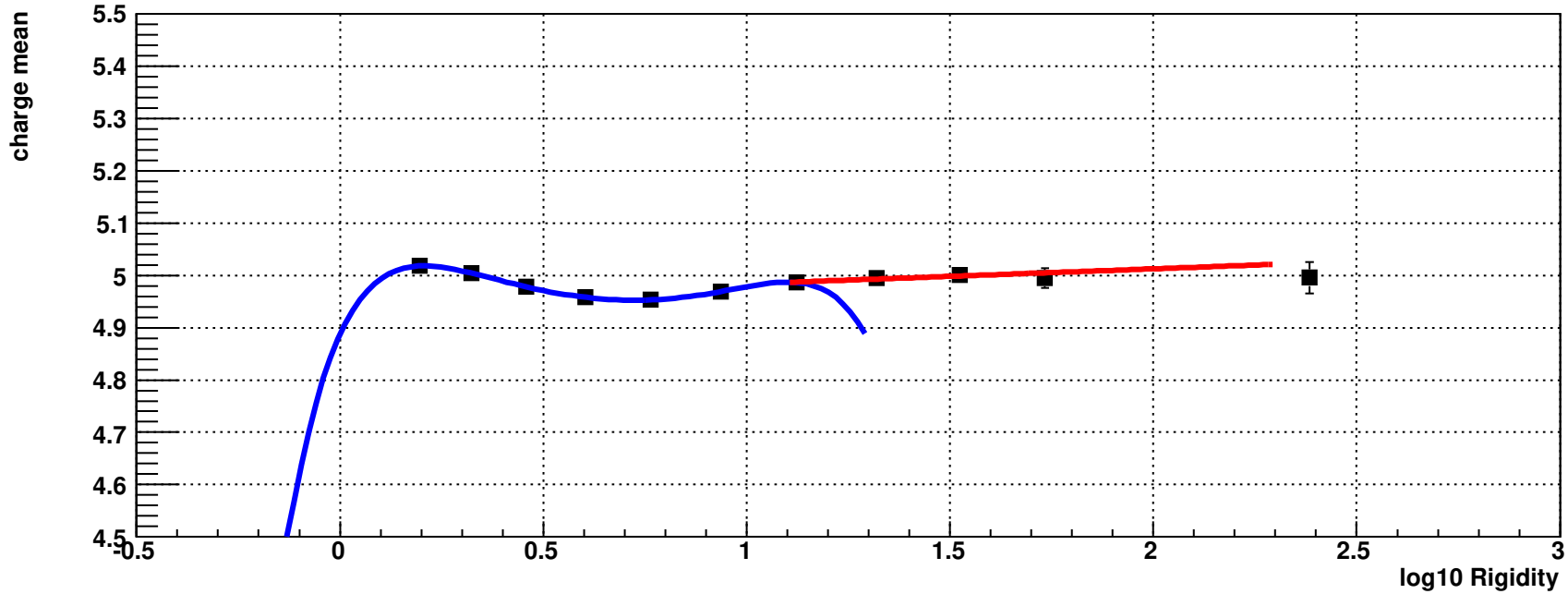

1_rig_charge_pre2_3
1_rig_charge_pre2_3_py_8
Entries 1560
Mean 5.01
χ² / ndf 34.72 / 30
Constant 79.46 ± 2.76
Mean 4.995 ± 0.006
Sigma 0.1872 ± 0.0048
charge


1_rig_charge_pre2_3
1_rig_charge_pre2_3_py_9
Entries 666
Mean 5.032
χ² / ndf 64.1 / 35
Constant 29 ± 1.6
Mean 5.001 ± 0.010
Sigma 0.2098 ± 0.0088
charge

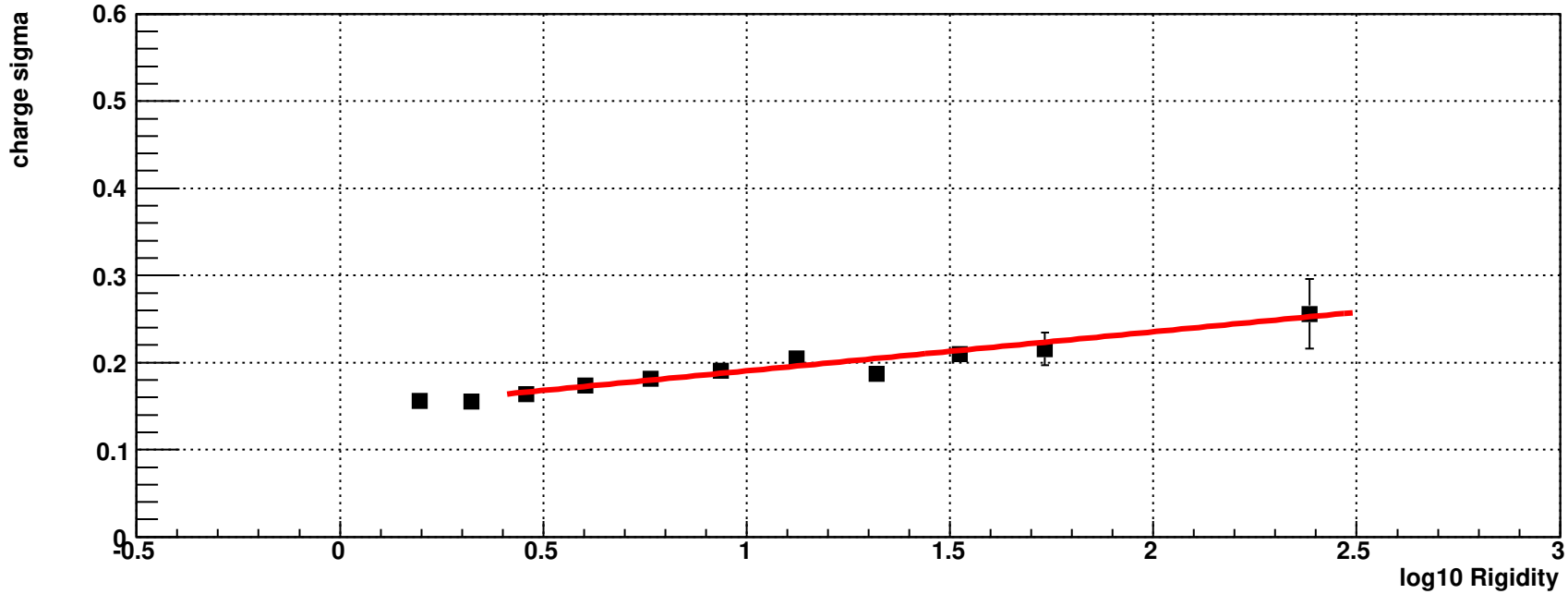

1_rig_charge_pre2_3
1_rig_charge_pre2_3_py_10
Entries 223
Mean 5.019
χ² / ndf 22.27 / 32
Constant 9.218 ± 0.949
Mean 4.995 ± 0.019
Sigma 0.2157 ± 0.0184
charge

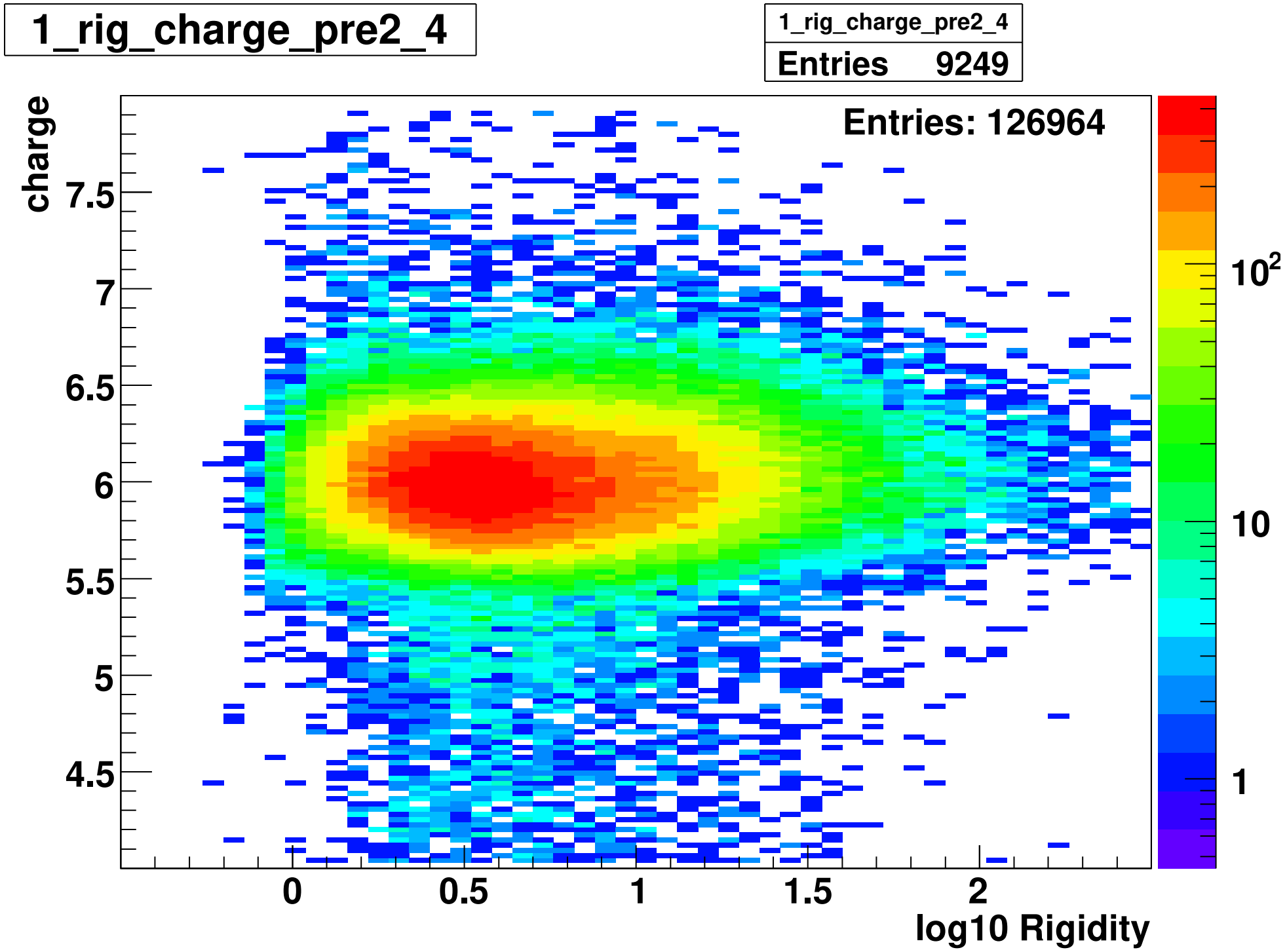

1_rig_charge_pre2_3
1_rig_charge_pre2_3_py_11
Entries 145
Mean 5.037
χ² / ndf 28.09 / 33
Constant 4.67 ± 0.69
Mean 4.996 ± 0.030
Sigma 0.2559 ± 0.0399
charge

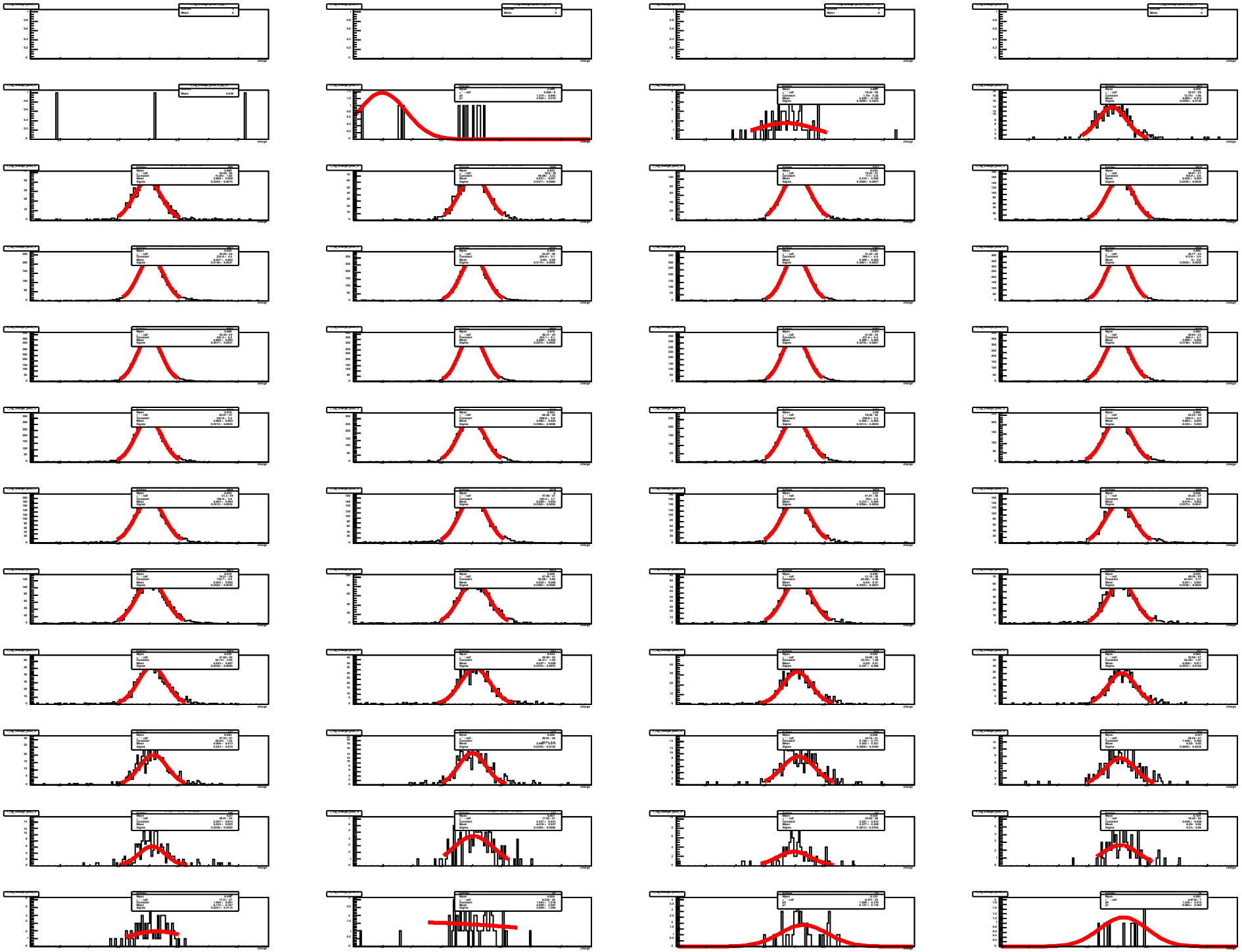
1_rig_charge_pre2_3 Boron



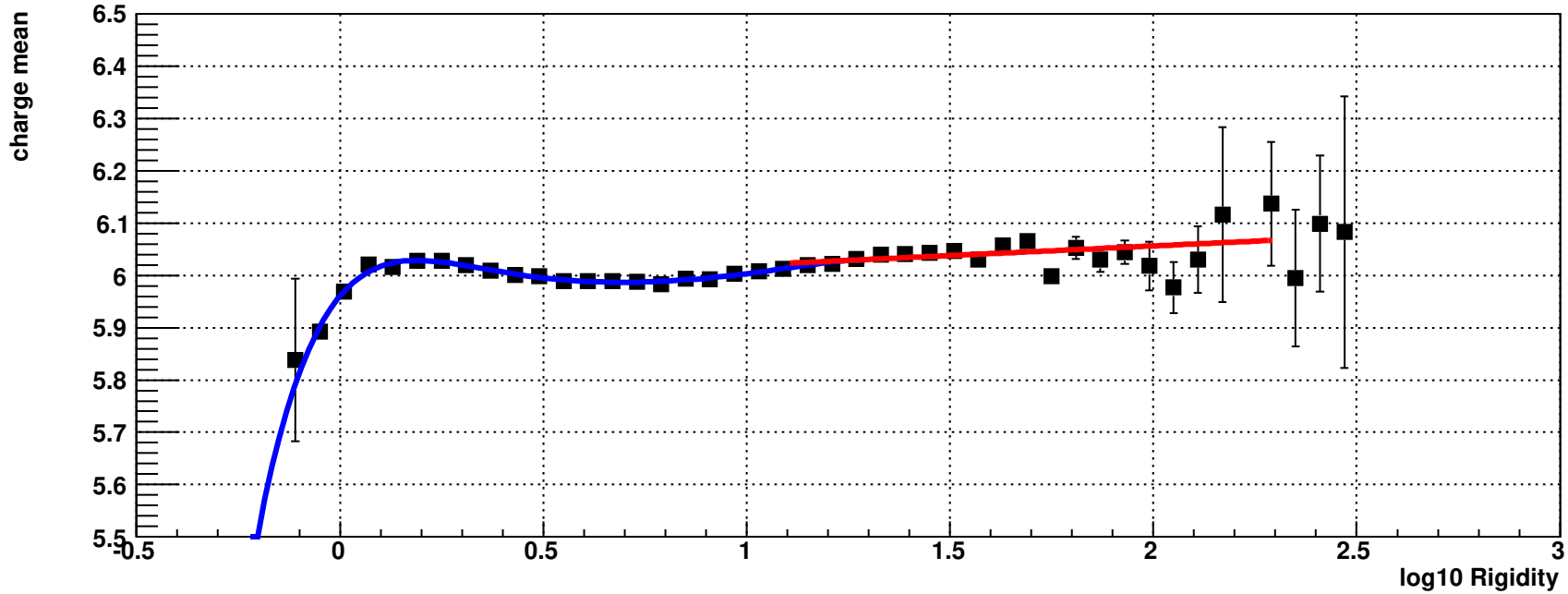
1_rig_charge_pre2_3 Boron



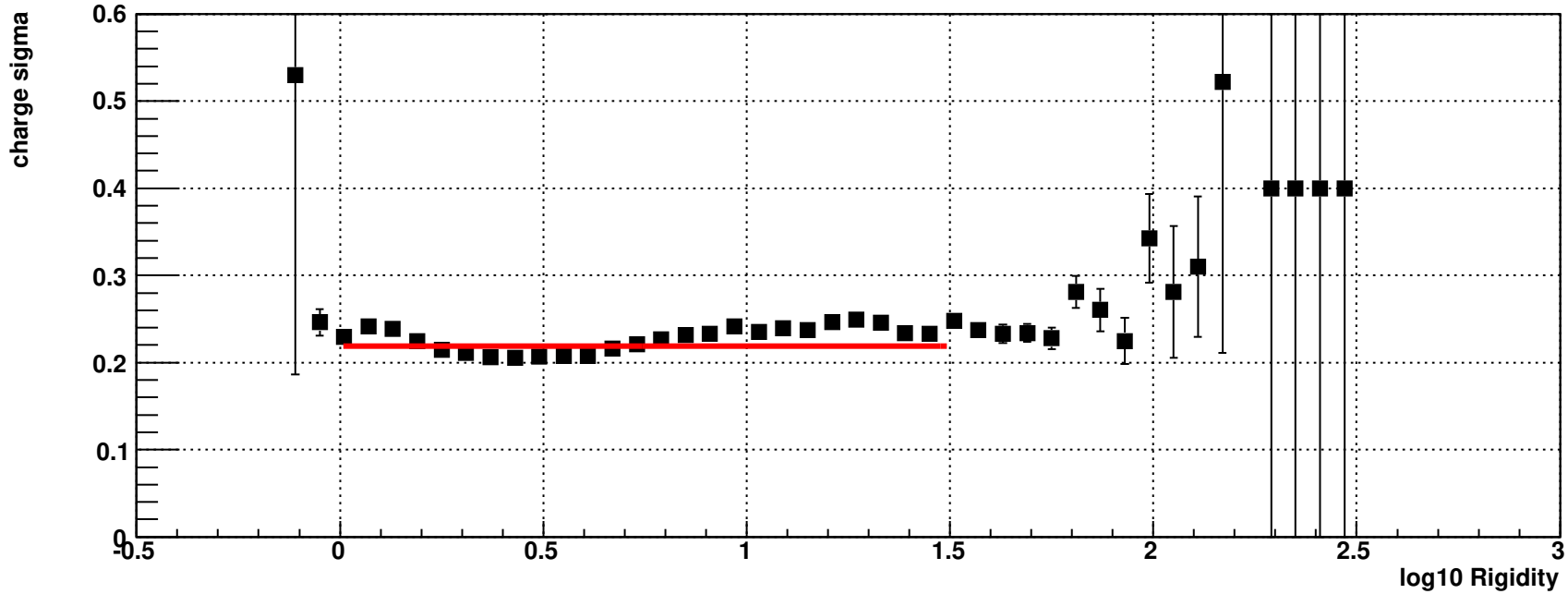

1_rig_charge_pre2_4
1_rig_charge_pre2_4
Entries 9249
Entries: 126964
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

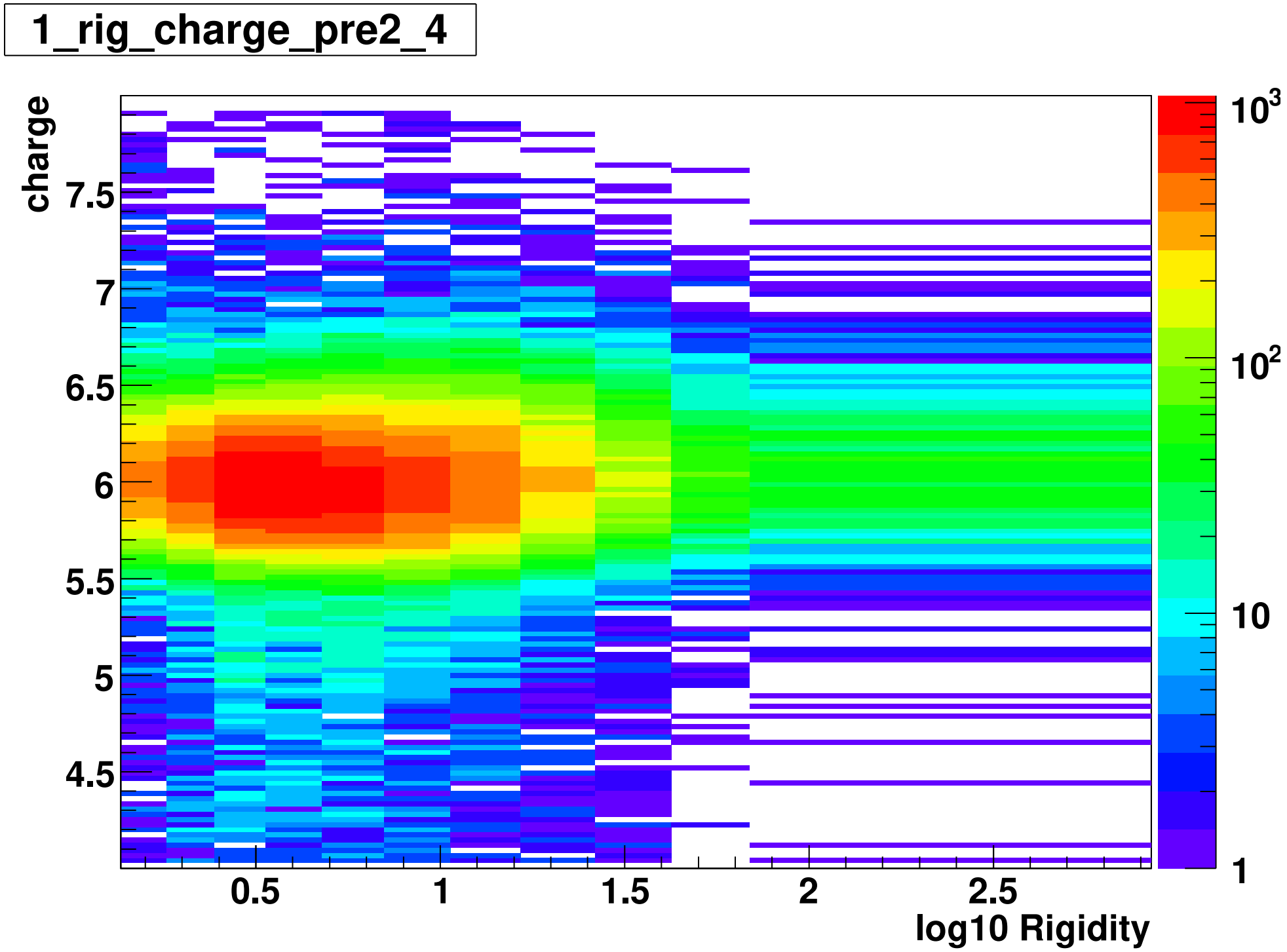


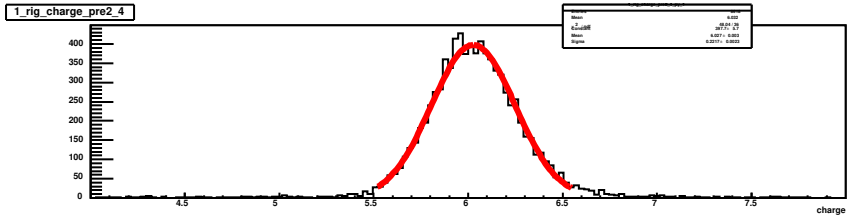
1_rig_charge_pre2_4 Carbon

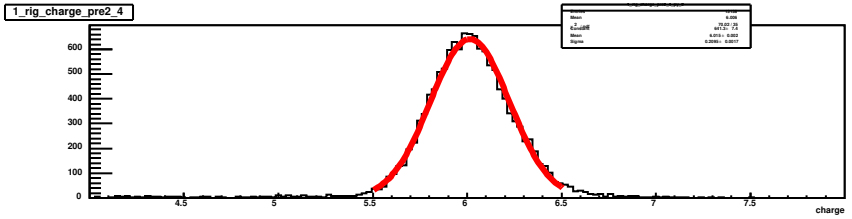


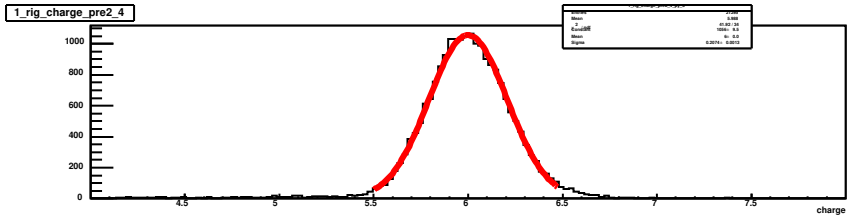
1_rig_charge_pre2_4 Carbon

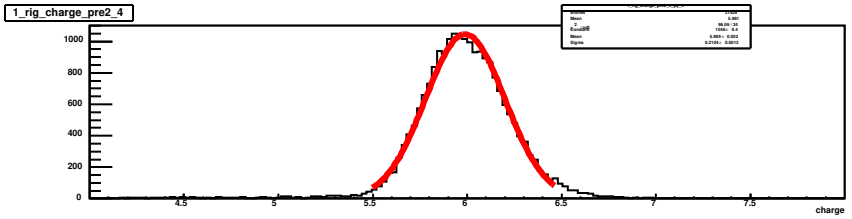


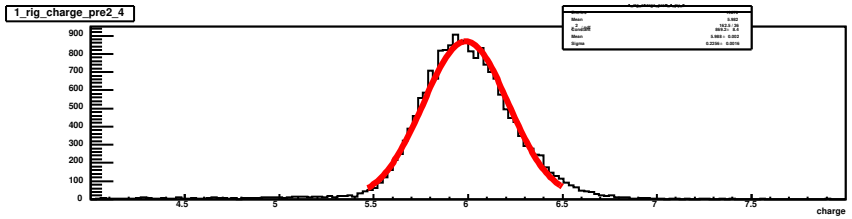

1_rig_charge_pre2_4
charge
7.5
7
6.5
6
5.5
5
4.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^3
10^2
10
1

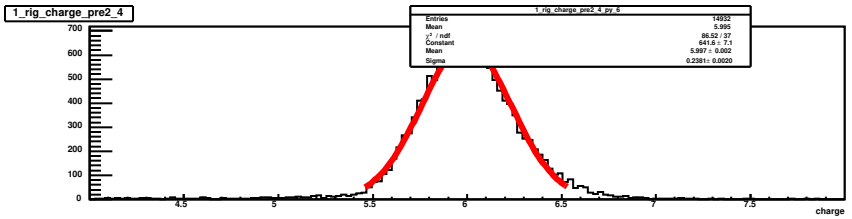

1_rig_charge_pre2_4
charge

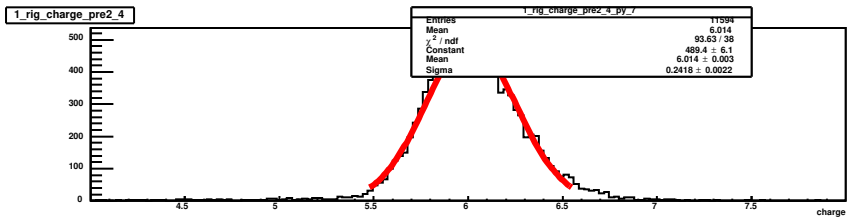

1_rig_charge_pre2_4
charge

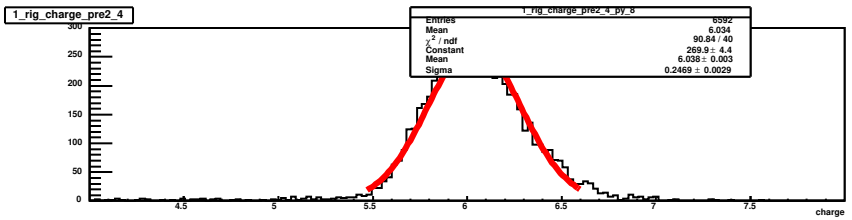

1_rig_charge_pre2_4
charge

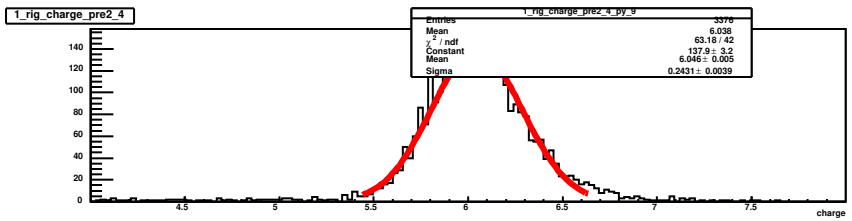

1_rig_charge_pre2_4
charge

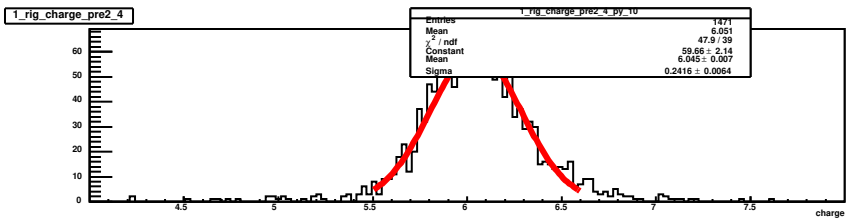

1_rig_charge_pre2_4
charge

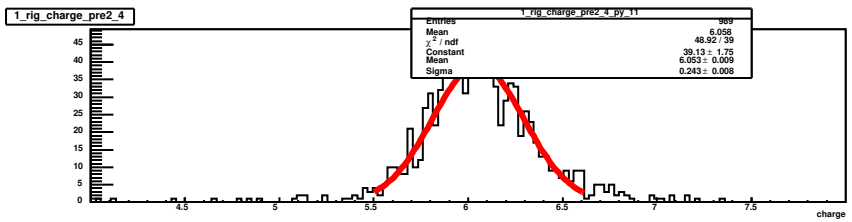

1_rig_charge_pre2_4
1_rig_charge_pre2_4_py_6
Entries 14932
Mean 5.995
χ² / ndf 86.52 / 97
Constant 641.6 ± 7.1
Mean 5.997 ± 0.002
Sigma 0.2381 ± 0.0020
charge


1_rig_charge_pre2_4
1_rig_charge_pre2_4_py_7
Entries 11594
Mean 6.014
χ² / ndf 93.63 / 38
Constant 489.4 ± 6.1
Mean 6.014 ± 0.003
Sigma 0.2418 ± 0.0022
charge

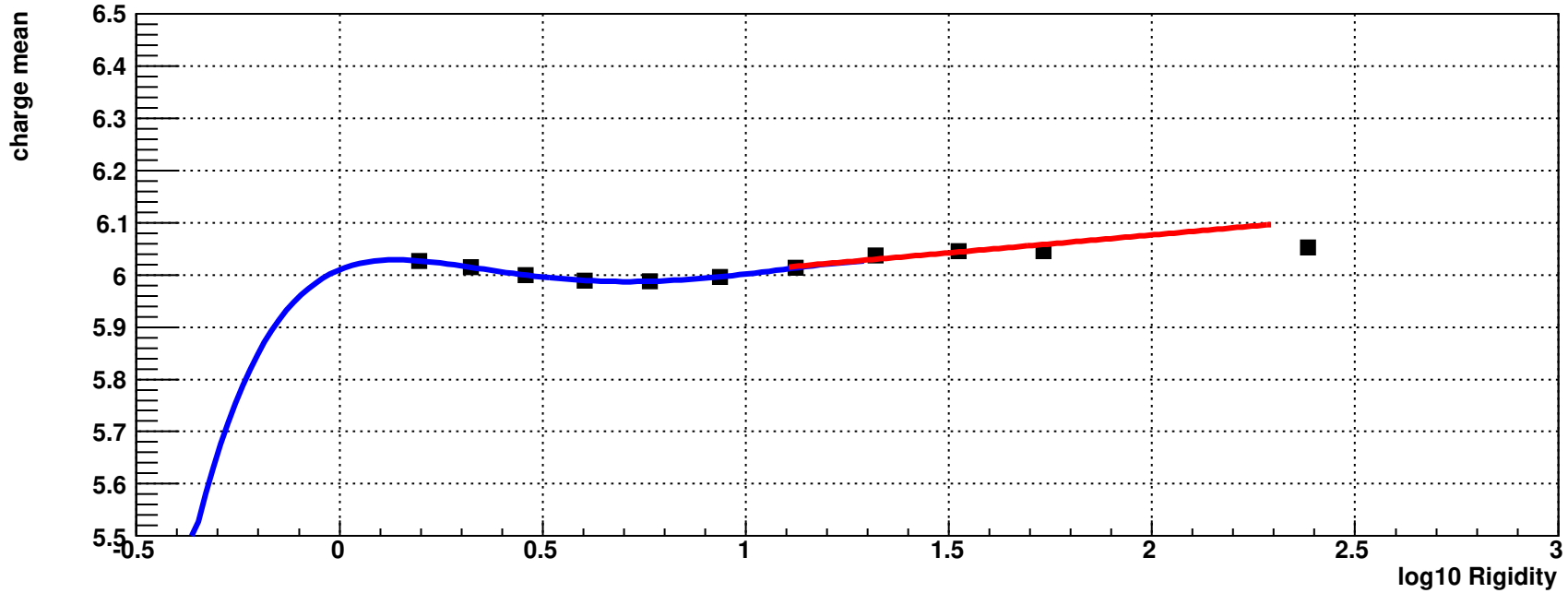

1_rig_charge_pre2_4
1_rig_charge_pre2_4_py_8
Entries 6592
Mean 6.034
χ² / ndf 90.84 / 40
Constant 269.9 ± 4.4
Mean 6.038 ± 0.003
Sigma 0.2469 ± 0.0029
charge


1_rig_charge_pre2_4
1_rig_charge_pre2_4_py_9
Entries 3376
Mean 6.038
χ² / ndf 63.18 / 42
Constant 137.9 ± 3.2
Mean 6.046 ± 0.005
Sigma 0.2431 ± 0.0039
charge

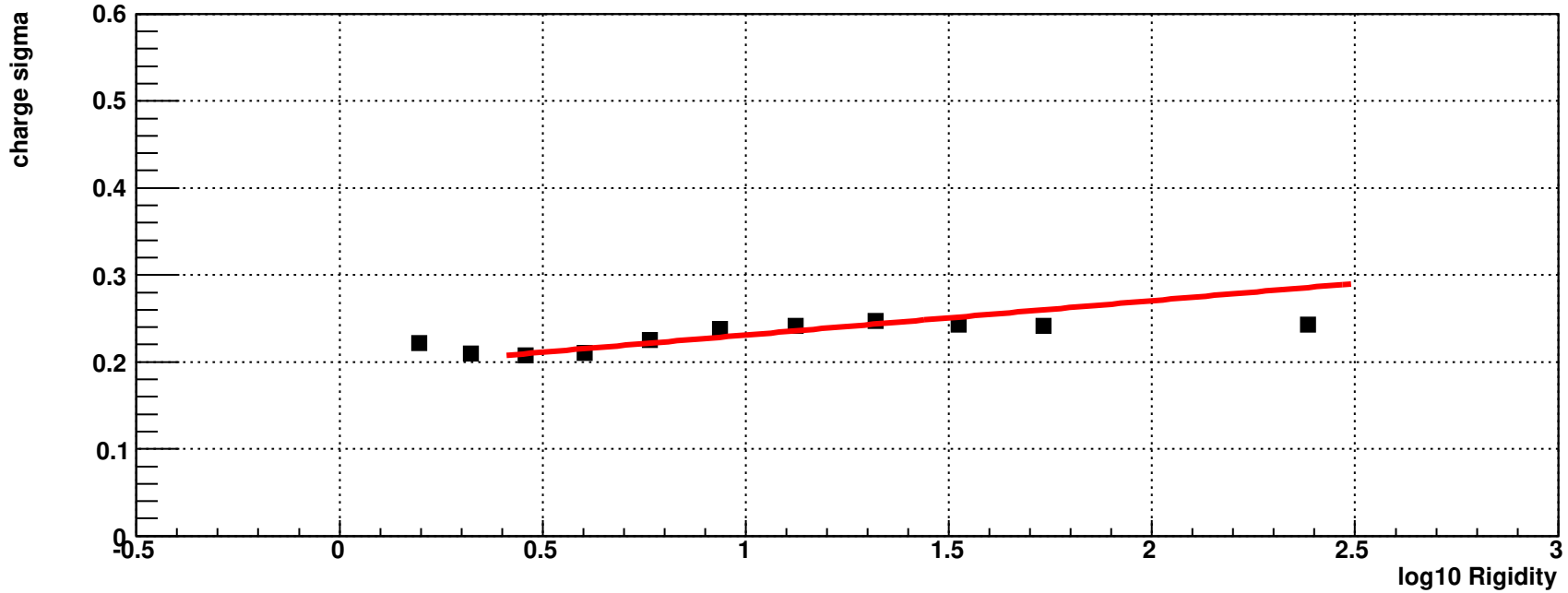

1_rig_charge_pre2_4
1_rig_charge_pre2_4_py_10
Entries 1471
Mean 6.051
χ² / ndf 47.9 / 39
Constant 59.66 ± 2.14
Mean 6.045 ± 0.007
Sigma 0.2416 ± 0.0064
charge

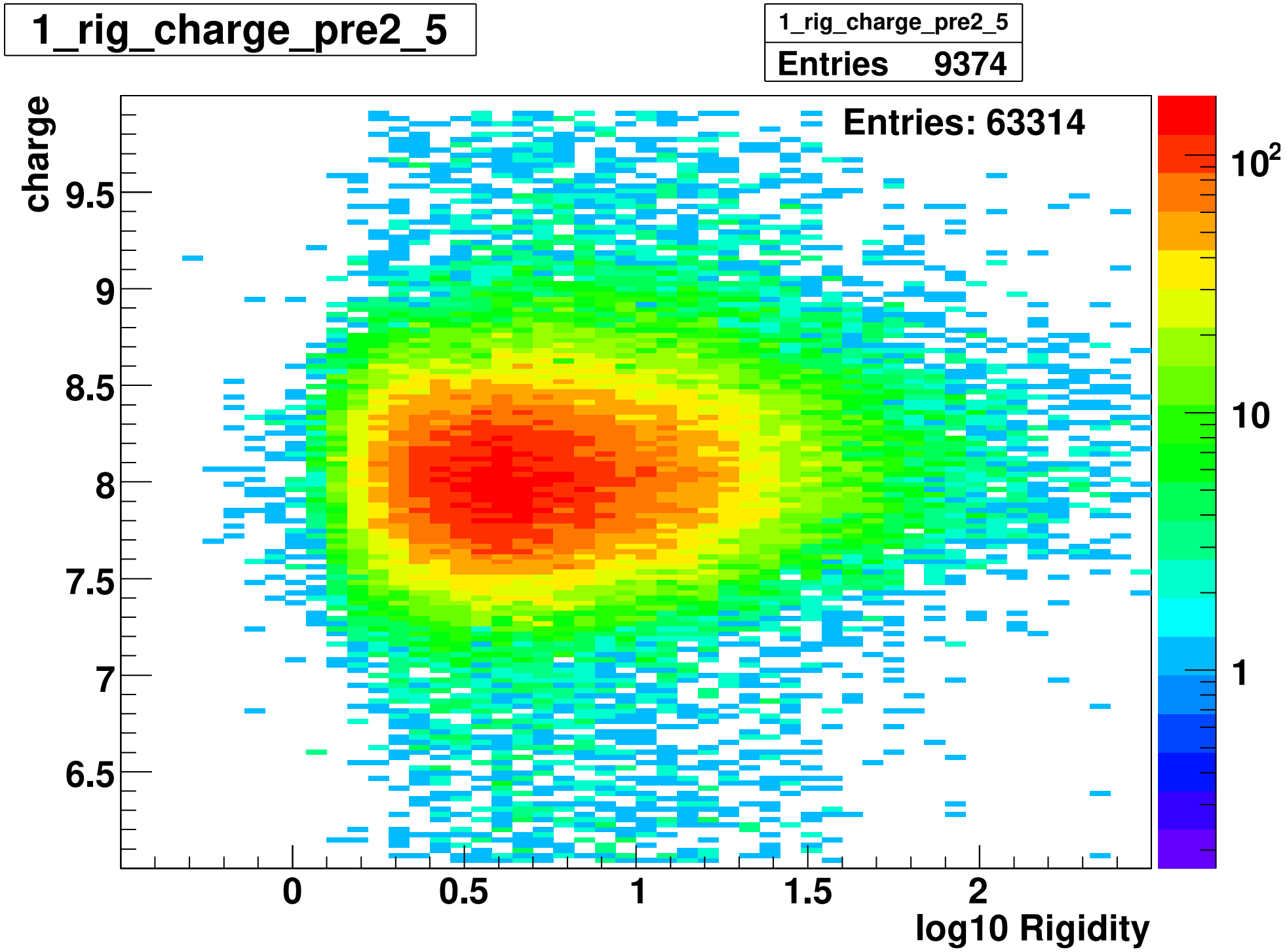

1_rig_charge_pre2_4
1_rig_charge_pre2_4_py_11
Entries 989
Mean 6.058
χ² / ndf 48.92 / 39
Constant 39.13 ± 1.75
Mean 6.053 ± 0.009
Sigma 0.243 ± 0.008
charge

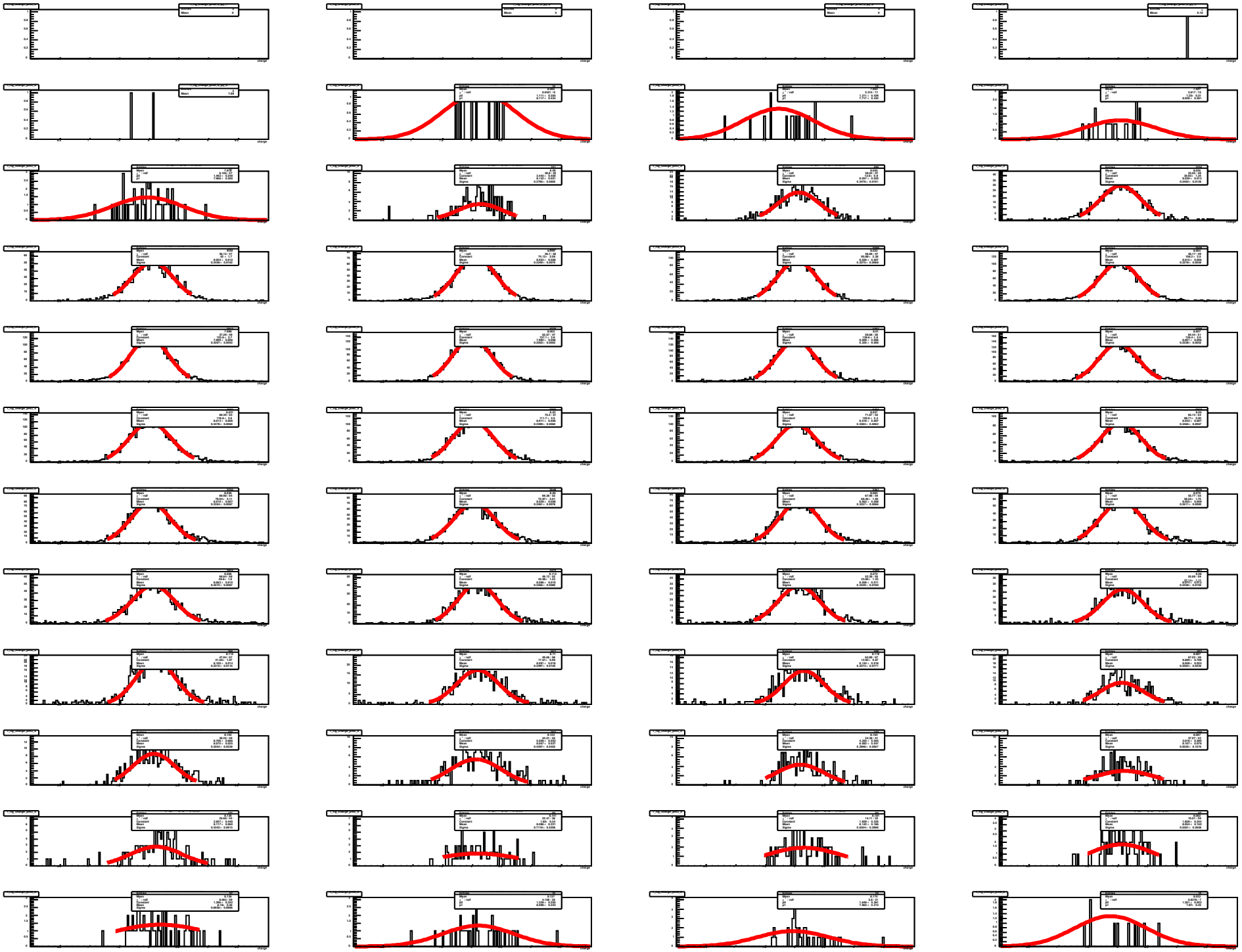
1_rig_charge_pre2_4 Carbon



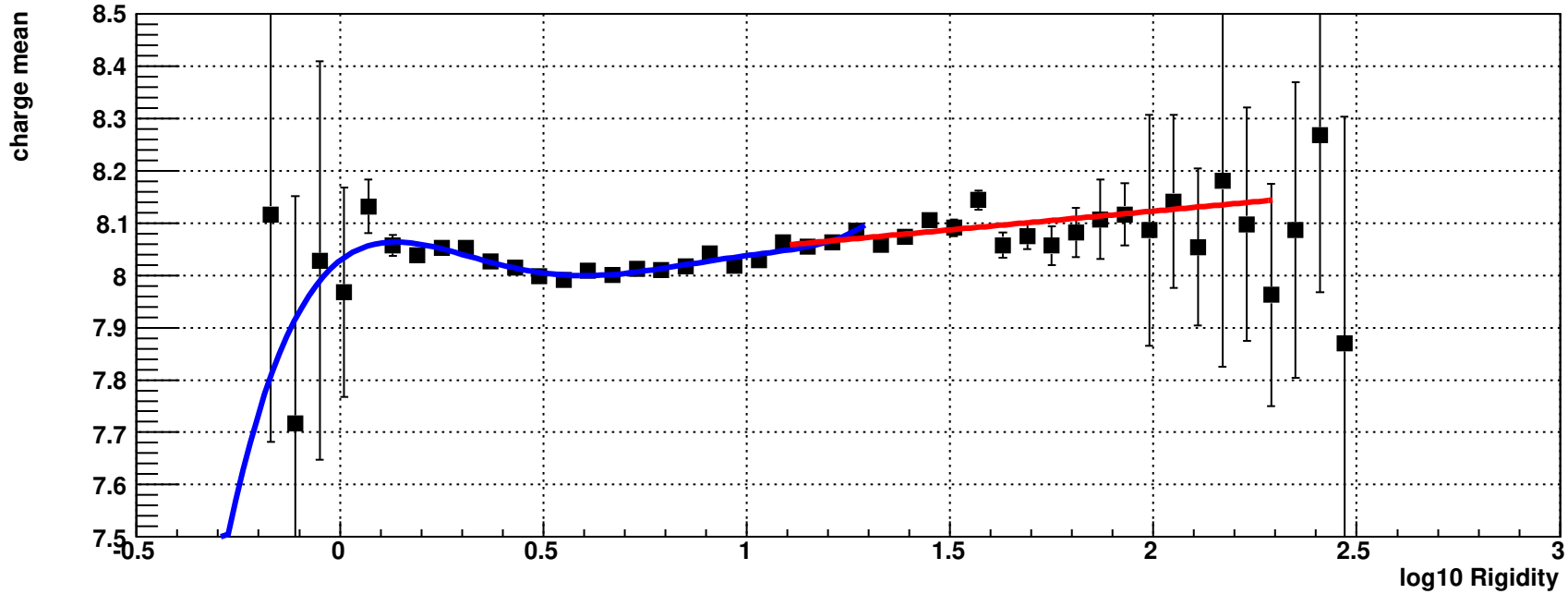
1_rig_charge_pre2_4 Carbon



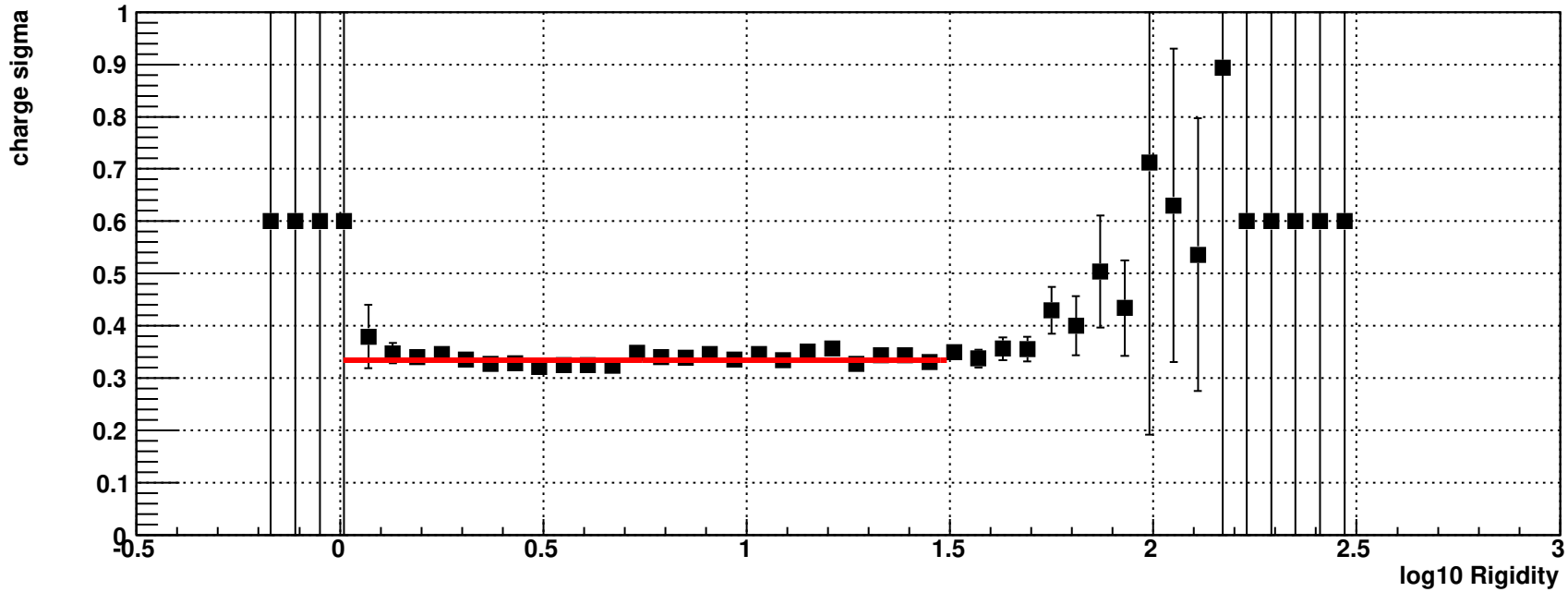

1_rig_charge_pre2_5
1_rig_charge_pre2_5
Entries 9374
Entries: 63314
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

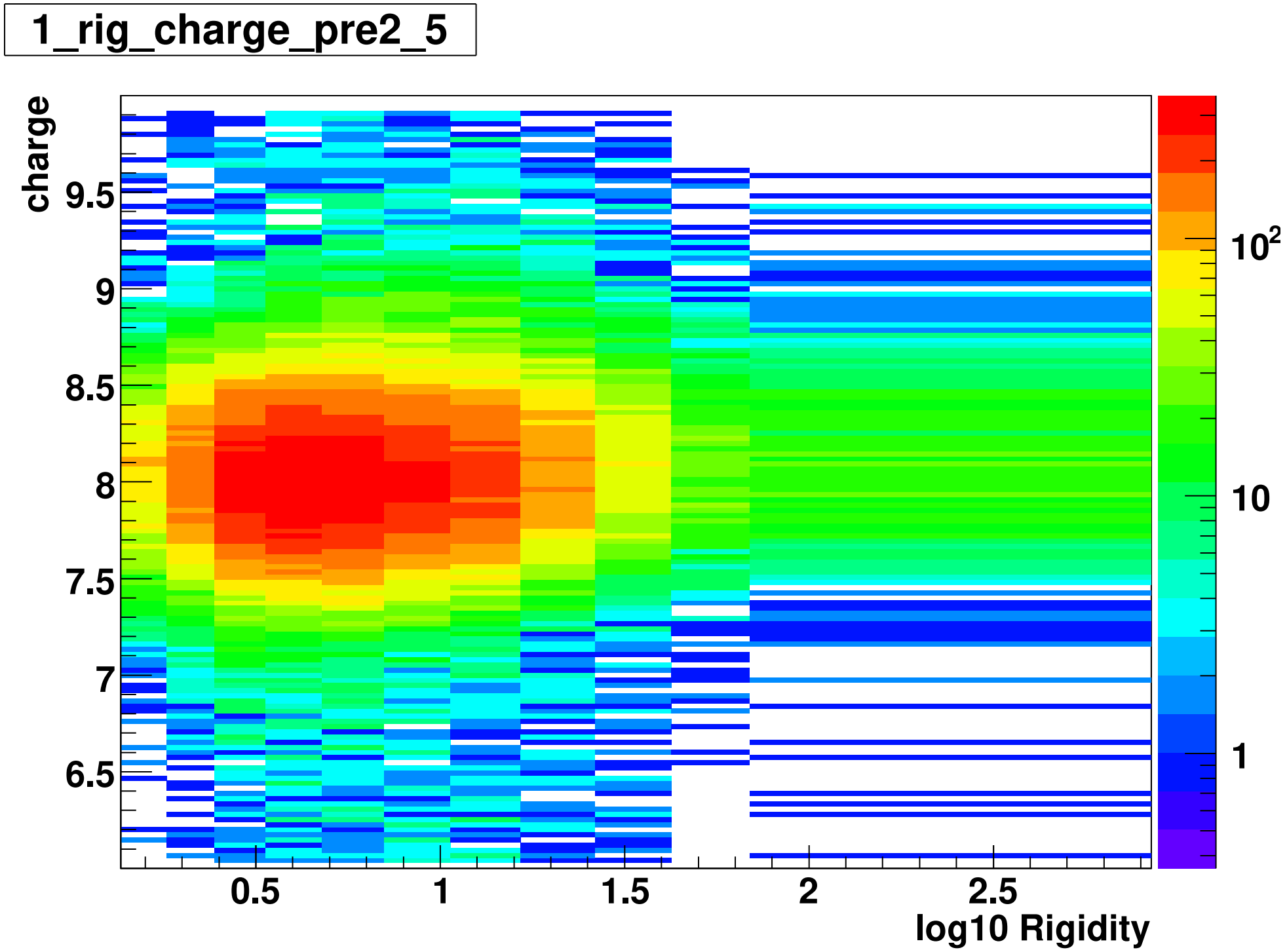


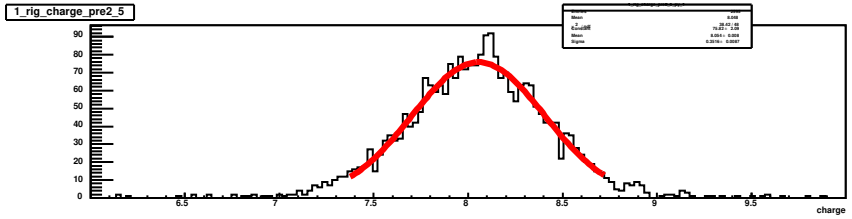
1_rig_charge_pre2_5_py_50

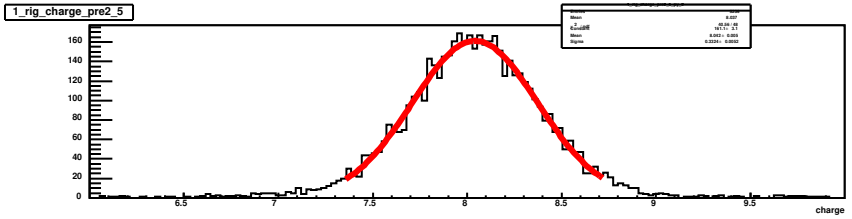


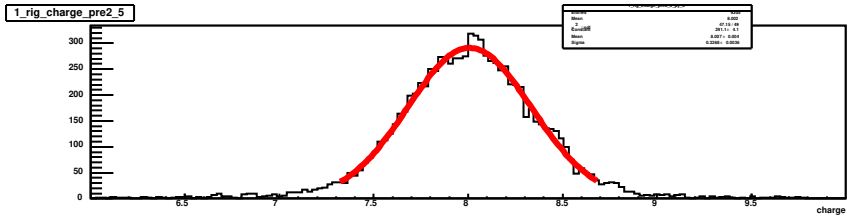
1_rig_charge_pre2_5_py_50

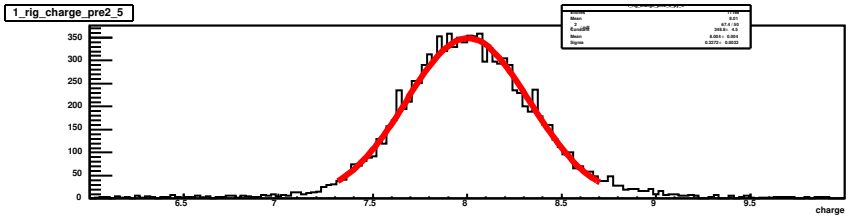


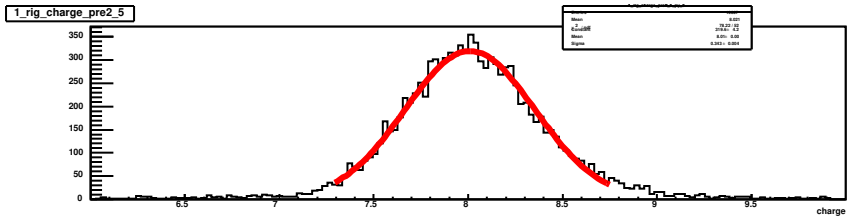

1_rig_charge_pre2_5
charge
9.5
9
8.5
8
7.5
7
6.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

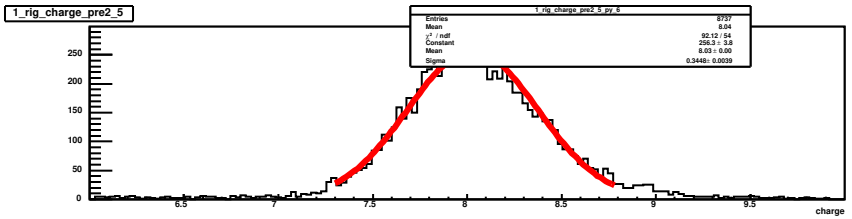

1_rig_charge_pre2_5
charge

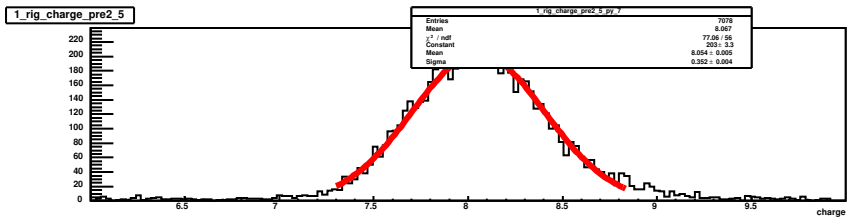

1_rig_charge_pre2_5
charge

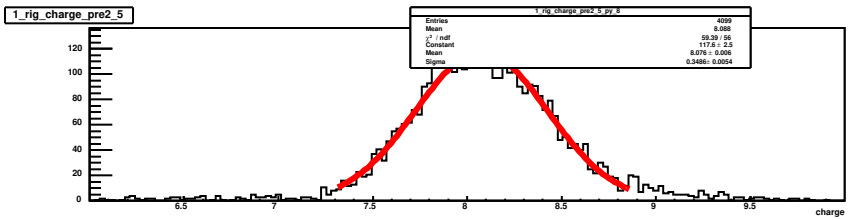

1_rig_charge_pre2_5
charge

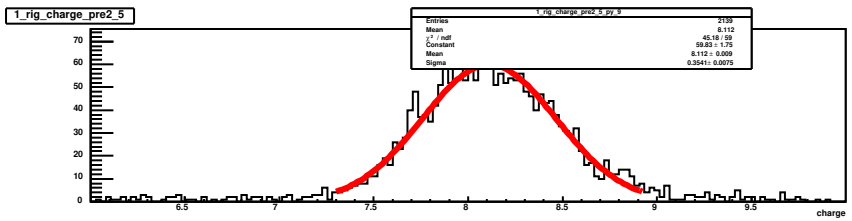

1_rig_charge_pre2_5
charge

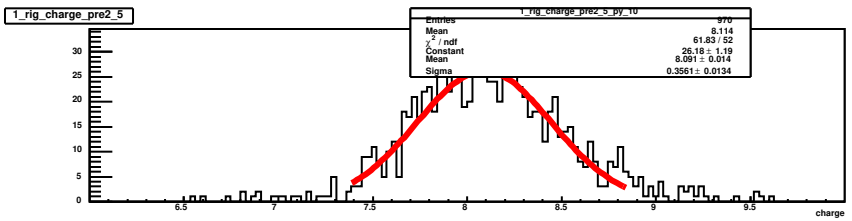

1_rig_charge_pre2_5
charge

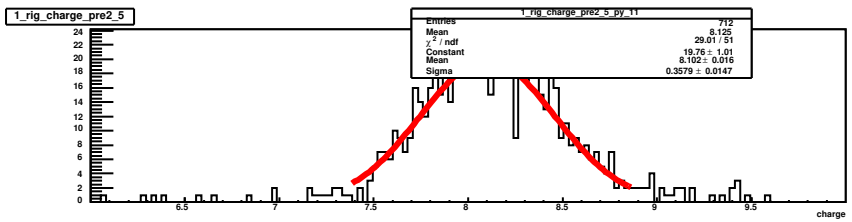

1_rig_charge_pre2_5
1_rig_charge_pre2_5_py_6
Entries 8737
Mean 8.04
χ² / ndf 92.12 / 54
Constant 256.3 ± 3.8
Mean 8.03 ± 0.00
Sigma 0.3448 ± 0.0039
charge


1_rig_charge_pre2_5
1_rig_charge_pre2_5_py_7
Entries 7078
Mean 8.067
χ² / ndf 77.06 / 56
Constant 203 ± 3.3
Mean 8.054 ± 0.005
Sigma 0.352 ± 0.004
charge

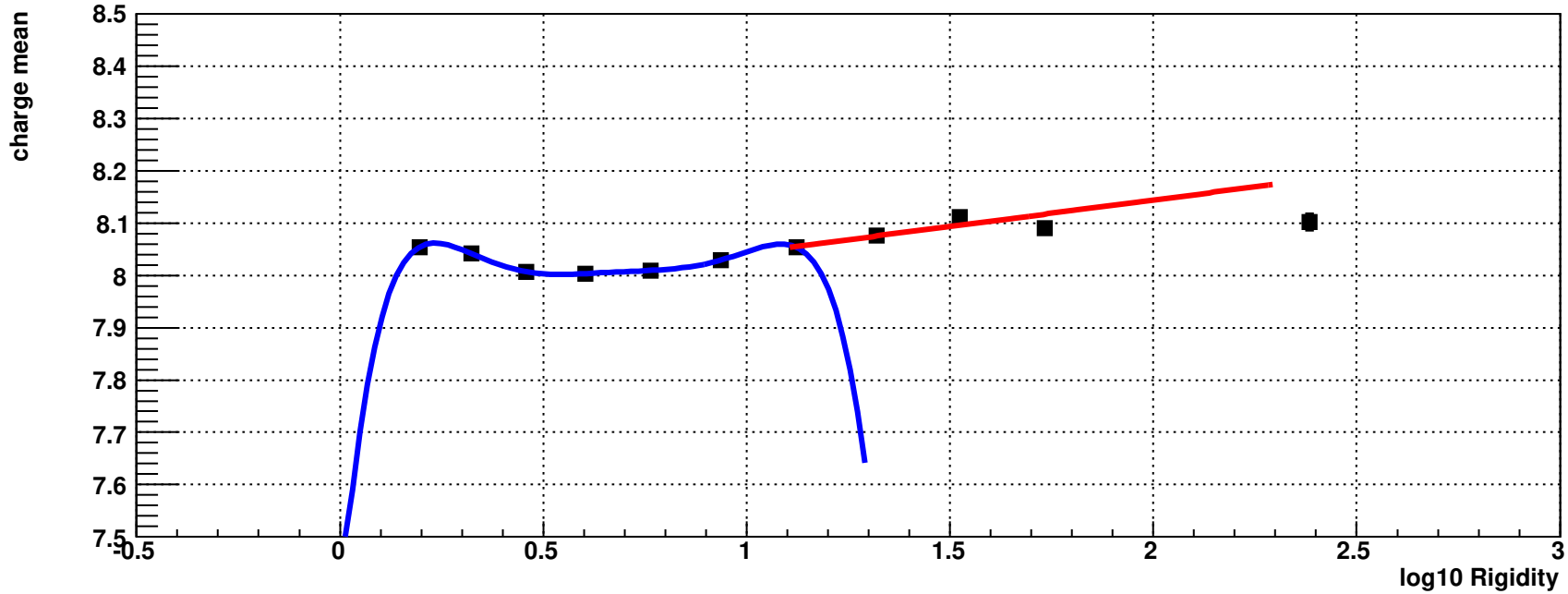

1_rig_charge_pre2_5
1_rig_charge_pre2_5_py_8
Entries 4099
Mean 8.088
χ² / ndf 59.39 / 56
Constant 117.8 ± 2.5
Mean 8.076 ± 0.006
Sigma 0.3486 ± 0.0054
charge


1_rig_charge_pre2_5
1_rig_charge_pre2_5_py_9
Entries 2139
Mean 8.112
χ² / ndf 45.18 / 59
Constant 59.83 ± 1.75
Mean 8.112 ± 0.009
Sigma 0.3541 ± 0.0075
charge

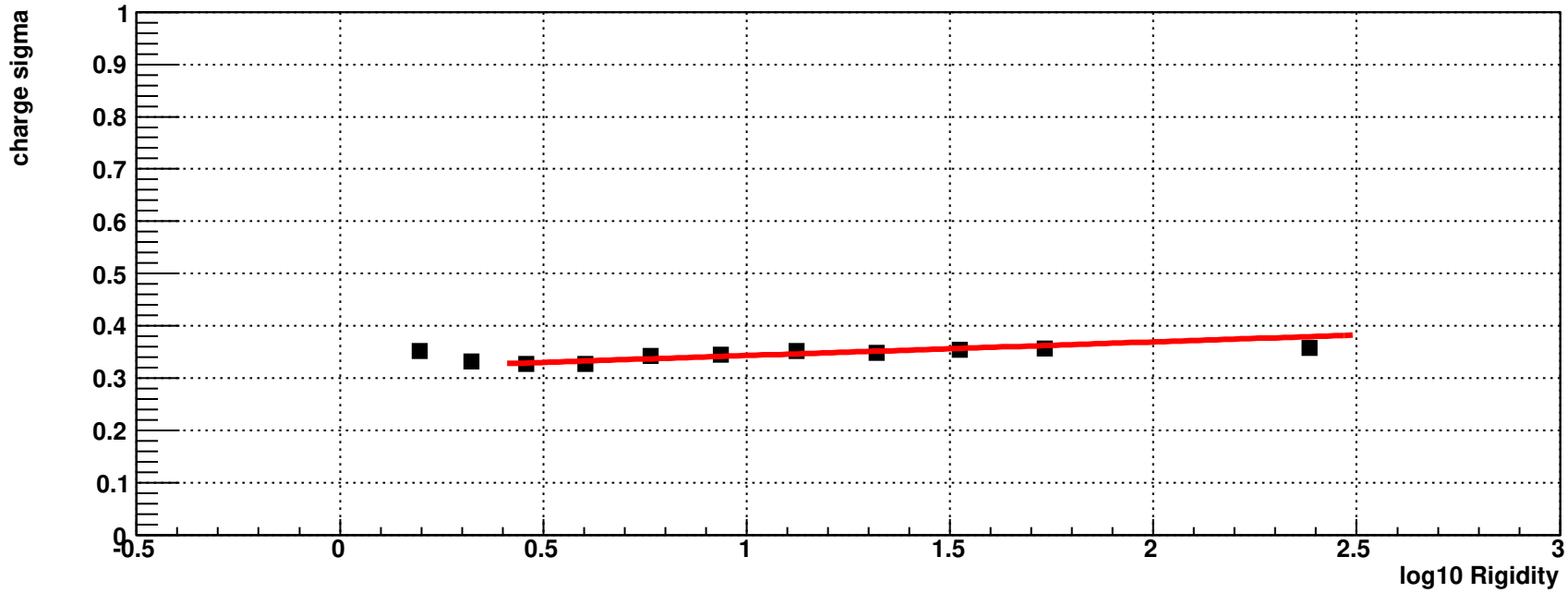

1_rig_charge_pre2_5
1_rig_charge_pre2_5_py_10
Entries 970
Mean 8.114
χ² / ndf 61.83 / 52
Constant 26.18 ± 1.19
Mean 8.091 ± 0.014
Sigma 0.3561 ± 0.0134
charge

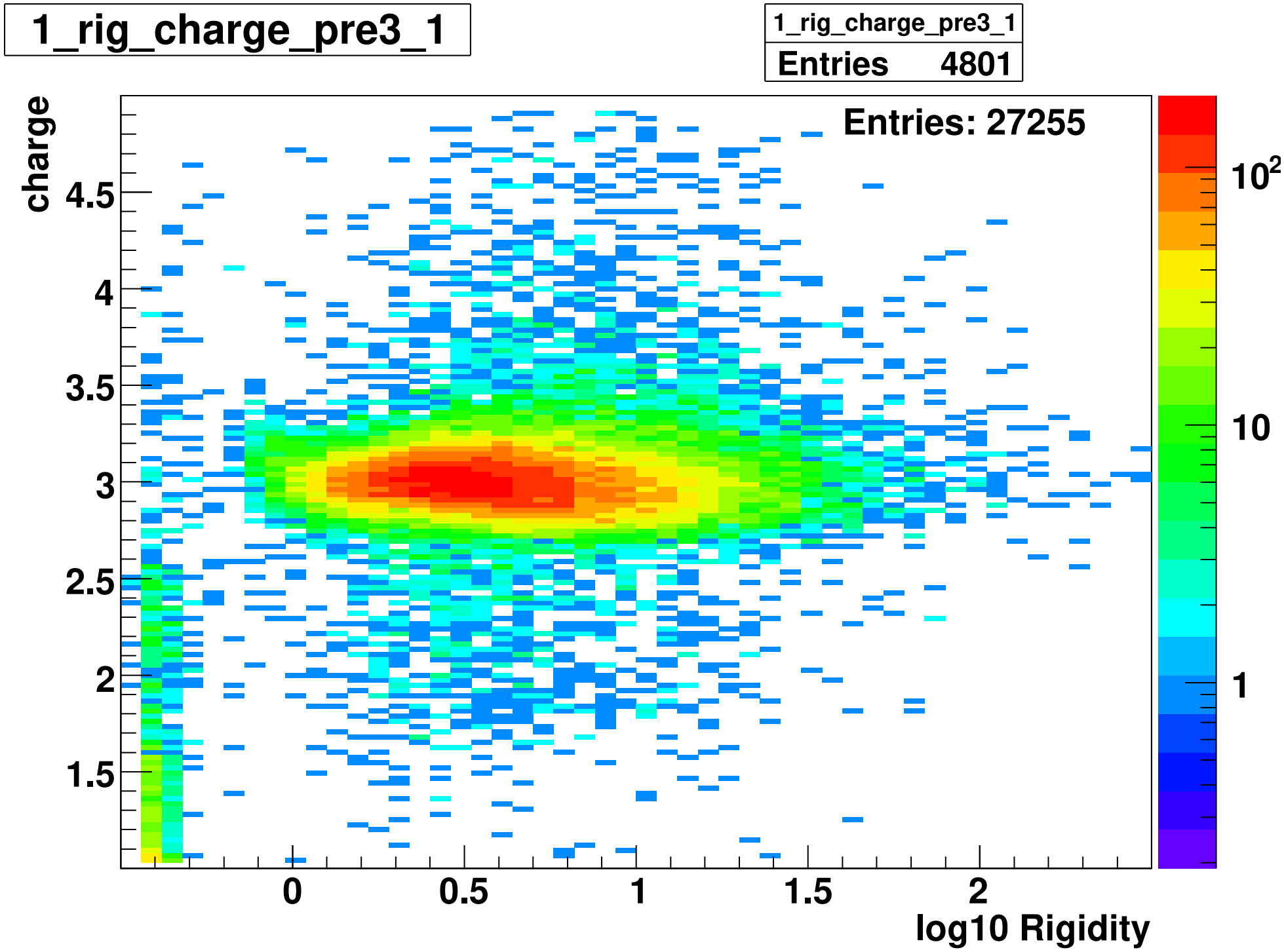

1_rig_charge_pre2_5
1_rig_charge_pre2_5_py_11
Entries 712
Mean 8.125
χ² / ndf 29.01 / 51
Constant 19.76 ± 1.01
Mean 8.102 ± 0.016
Sigma 0.3579 ± 0.0147
charge

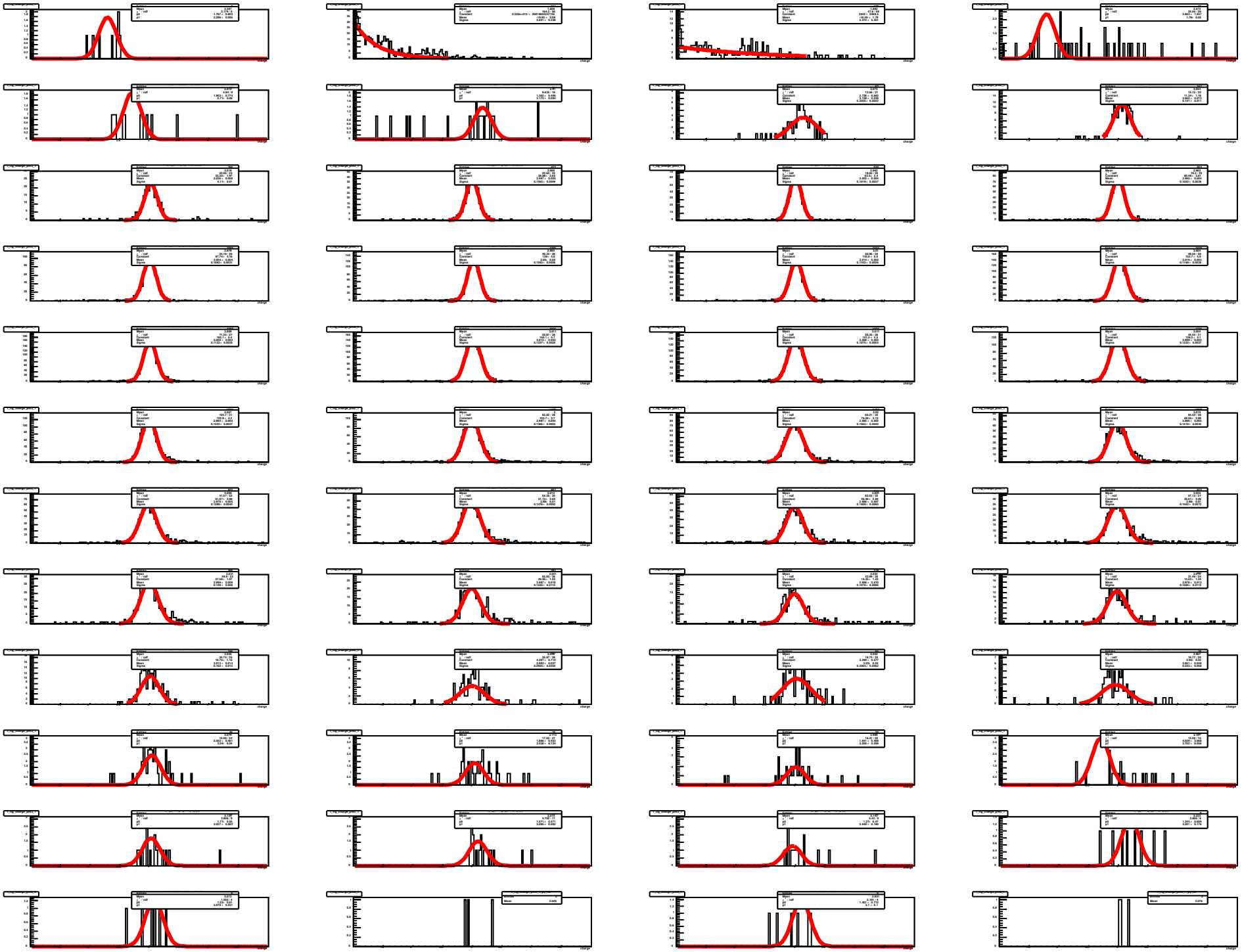
1_rig_charge_pre2_5_py_11



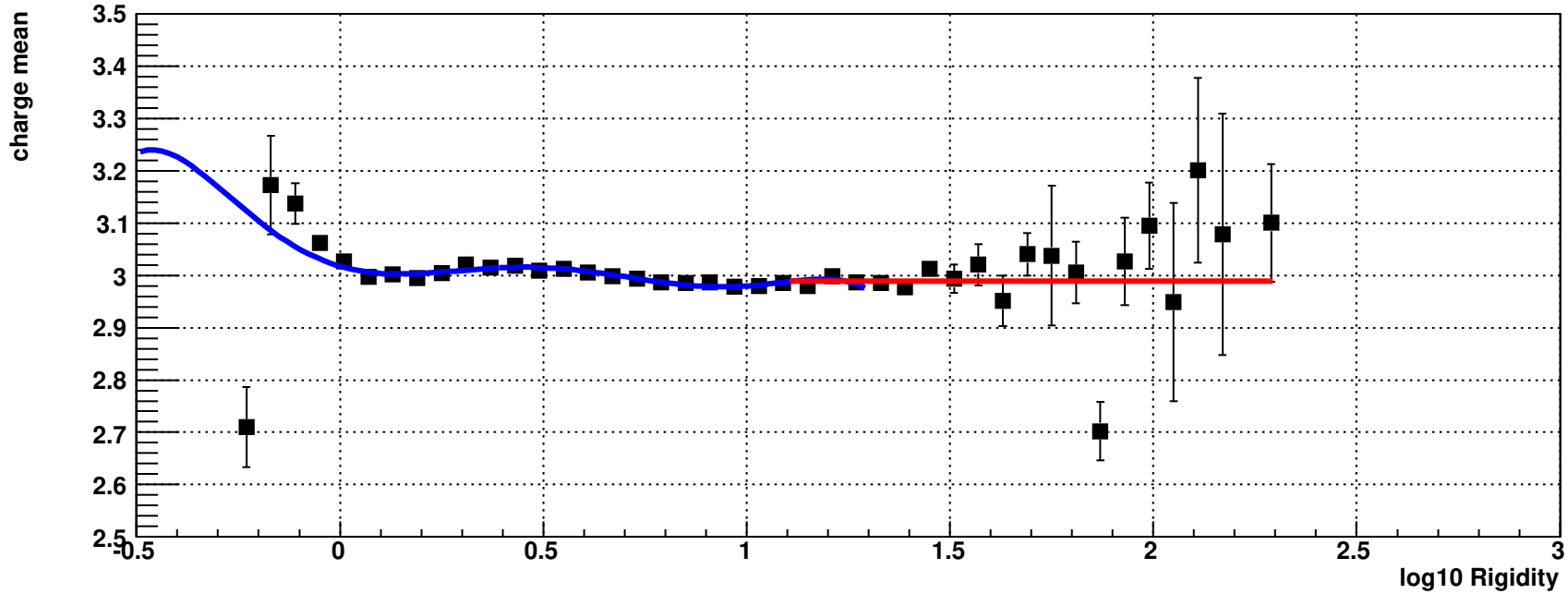
1_rig_charge_pre2_5_py_11



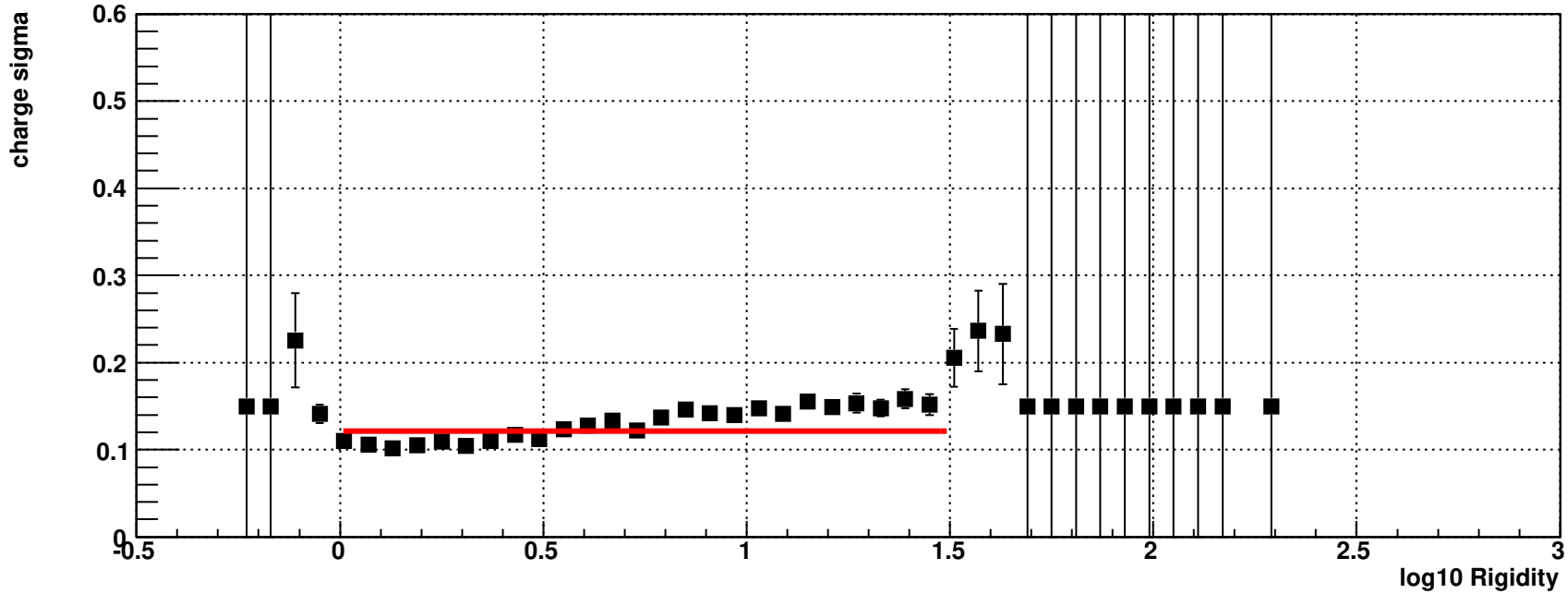

1_rig_charge_pre3_1
1_rig_charge_pre3_1
Entries 4801
Entries: 27255
charge
4.5
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

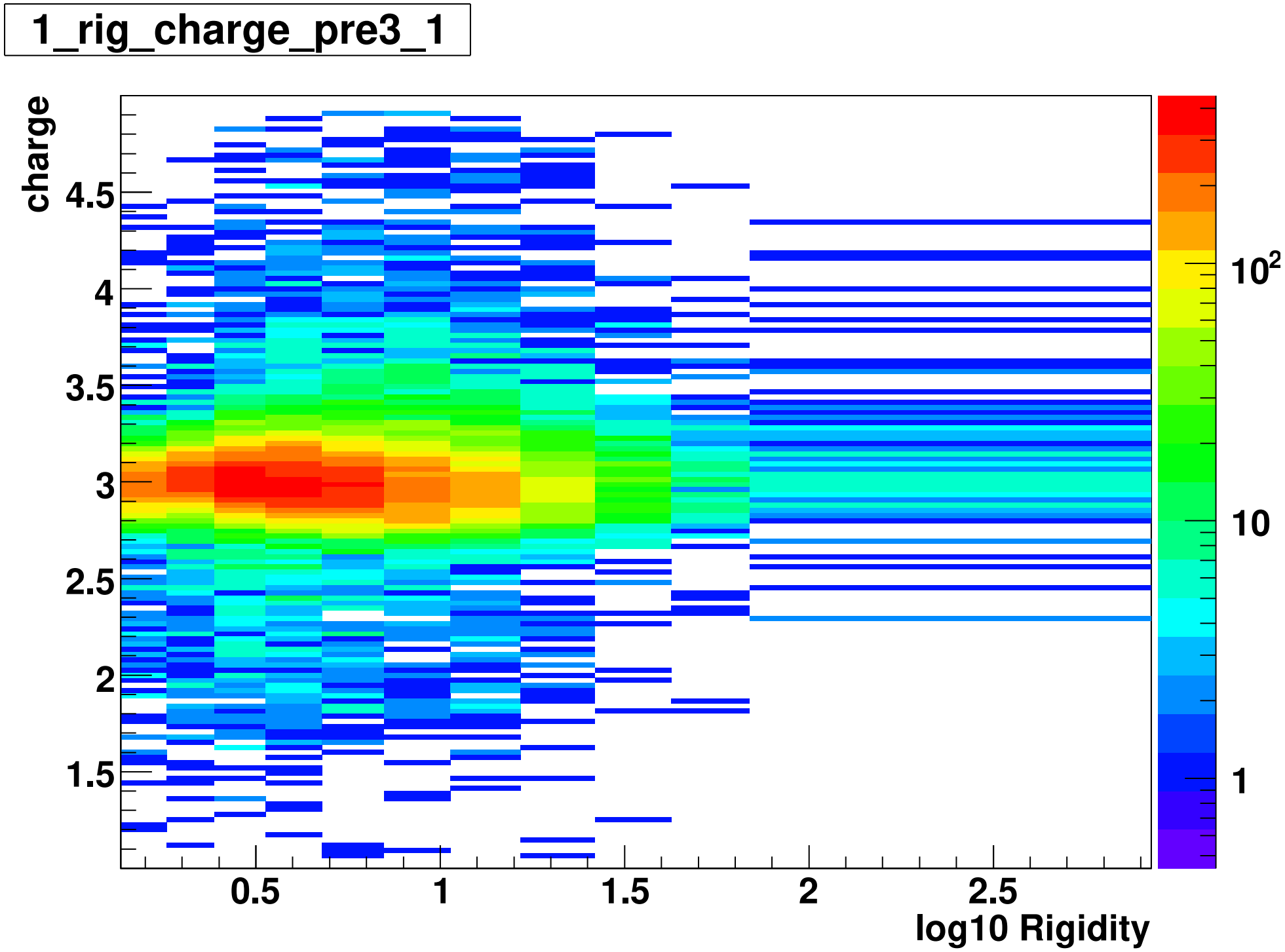


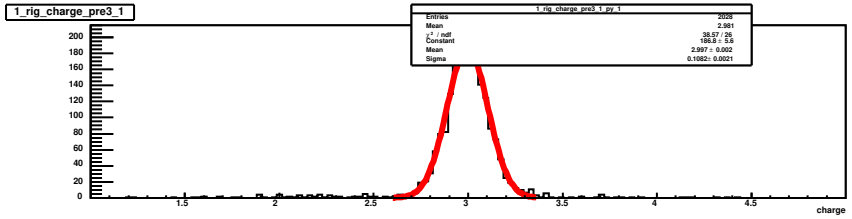
1_rig_charge_pre3_1 Lithium

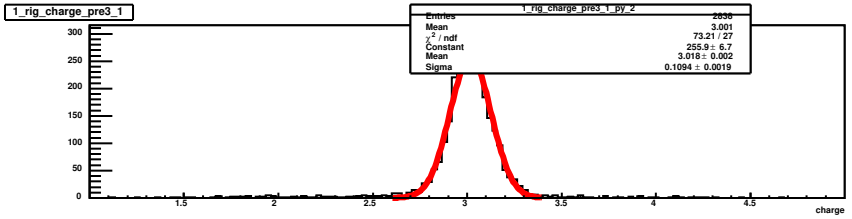


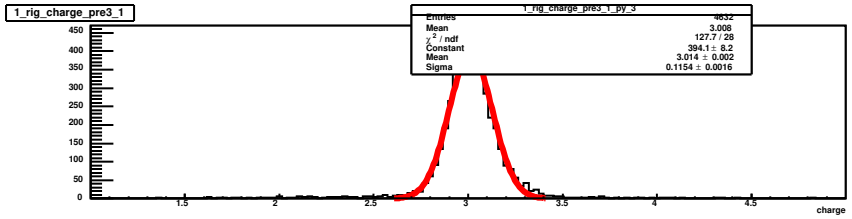
1_rig_charge_pre3_1 Lithium

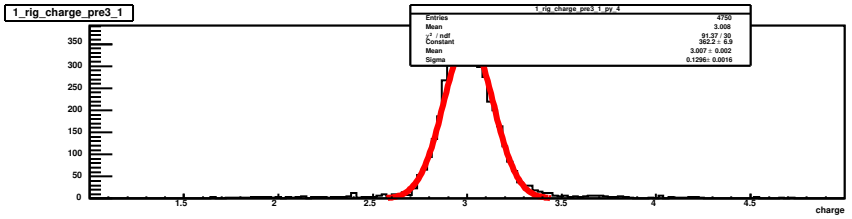


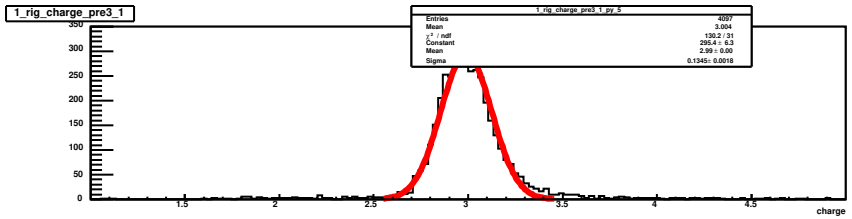

1_rig_charge_pre3_1
charge
4.5
4
3.5
3
2.5
2
1.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

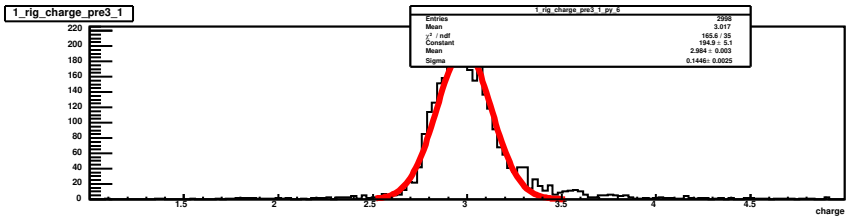

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_1
Entries 2028
Mean 2.981
χ² / ndf 38.57 / 26
Constant 186.8 ± 5.6
Mean 2.997 ± 0.002
Sigma 0.1082 ± 0.0021
charge

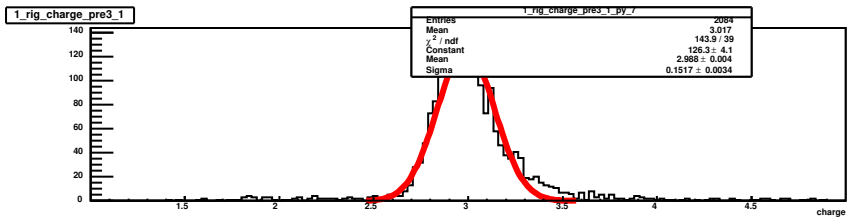

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_2
Entries 2838
Mean 3.001
χ² / ndf 73.21 / 27
Constant 255.9 ± 6.7
Mean 3.018 ± 0.002
Sigma 0.1094 ± 0.0019
charge

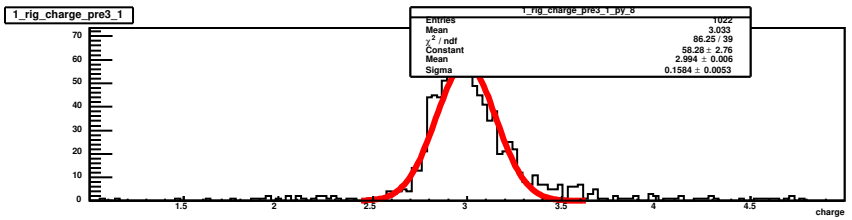

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_3
Entries 4632
Mean 3.008
χ² / ndf 127.7 / 28
Constant 394.1 ± 8.2
Mean 3.014 ± 0.002
Sigma 0.1154 ± 0.0016
charge

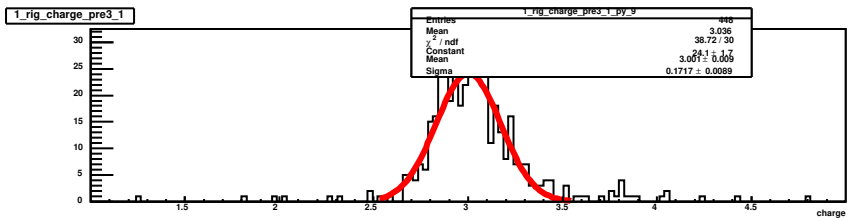

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_4
Entries 4750
Mean 3.008
χ² / ndf 91.37 / 30
Constant 362.2 ± 6.9
Mean 3.007 ± 0.002
Sigma 0.1296 ± 0.0016
charge

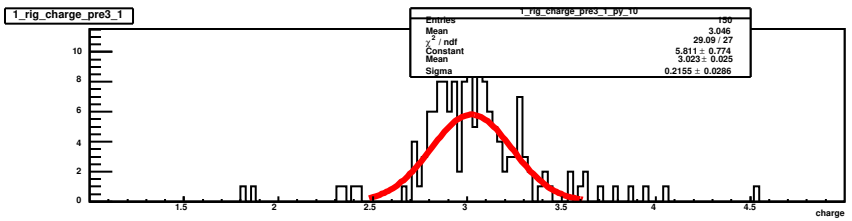

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_5
Entries 4097
Mean 3.004
χ² / ndf 130.2 / 31
Constant 285.4 ± 6.3
Mean 2.99 ± 0.00
Sigma 0.1345 ± 0.0018
charge

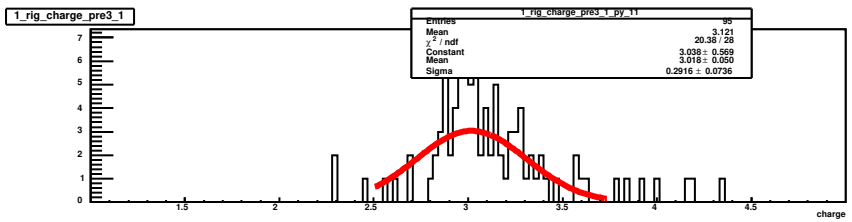

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_6
Entries 2998
Mean 3.017
χ² / ndf 165.6 / 35
Constant 194.9 ± 5.1
Mean 2.984 ± 0.003
Sigma 0.1446 ± 0.0025
charge


1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_7
Entries 2084
Mean 3.017
χ² / ndf 143.9 / 39
Constant 126.3 ± 4.1
Mean 2.988 ± 0.004
Sigma 0.1517 ± 0.0034
charge

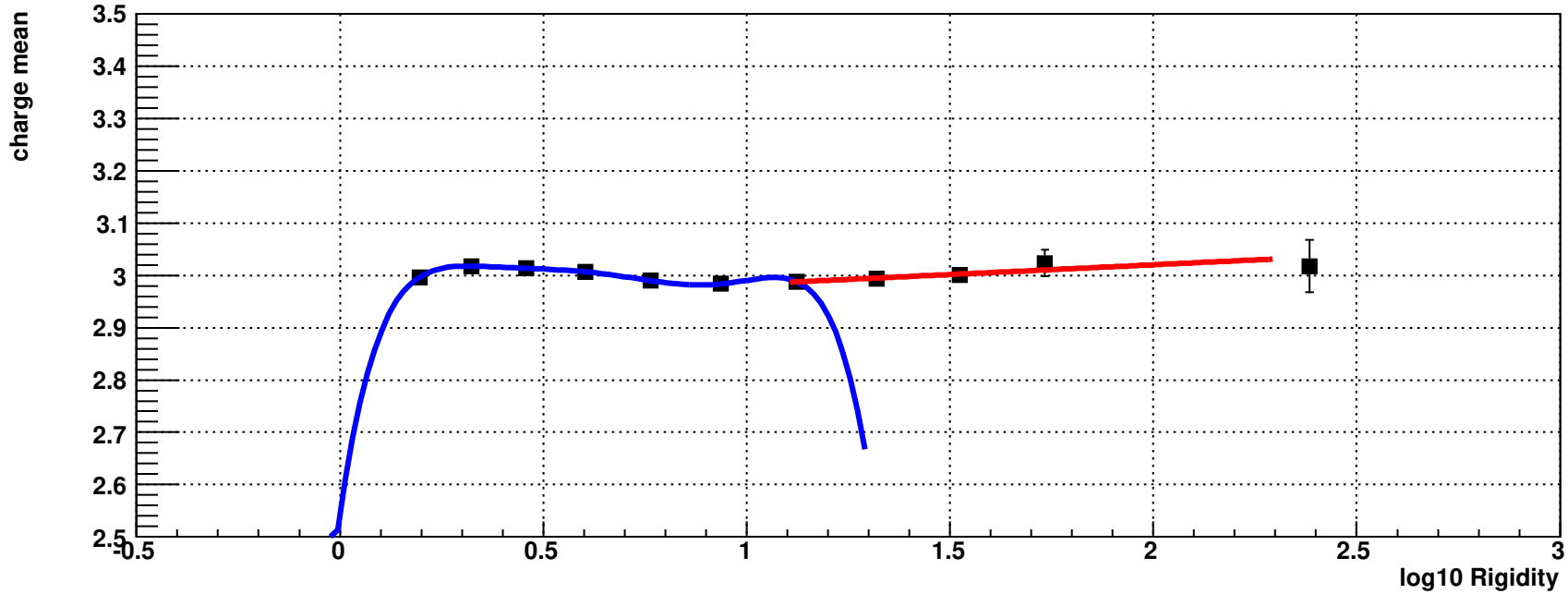

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_8
Entries 1022
Mean 3.033
χ² / ndf 86.25 / 39
Constant 58.28 ± 2.76
Mean 2.994 ± 0.006
Sigma 0.1584 ± 0.0053
charge


1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_9
Entries 448
Mean 3.036
χ² / ndf 38.72 / 30
Constant 24.1 ± 1.7
Mean 3.001 ± 0.009
Sigma 0.1717 ± 0.0089
charge

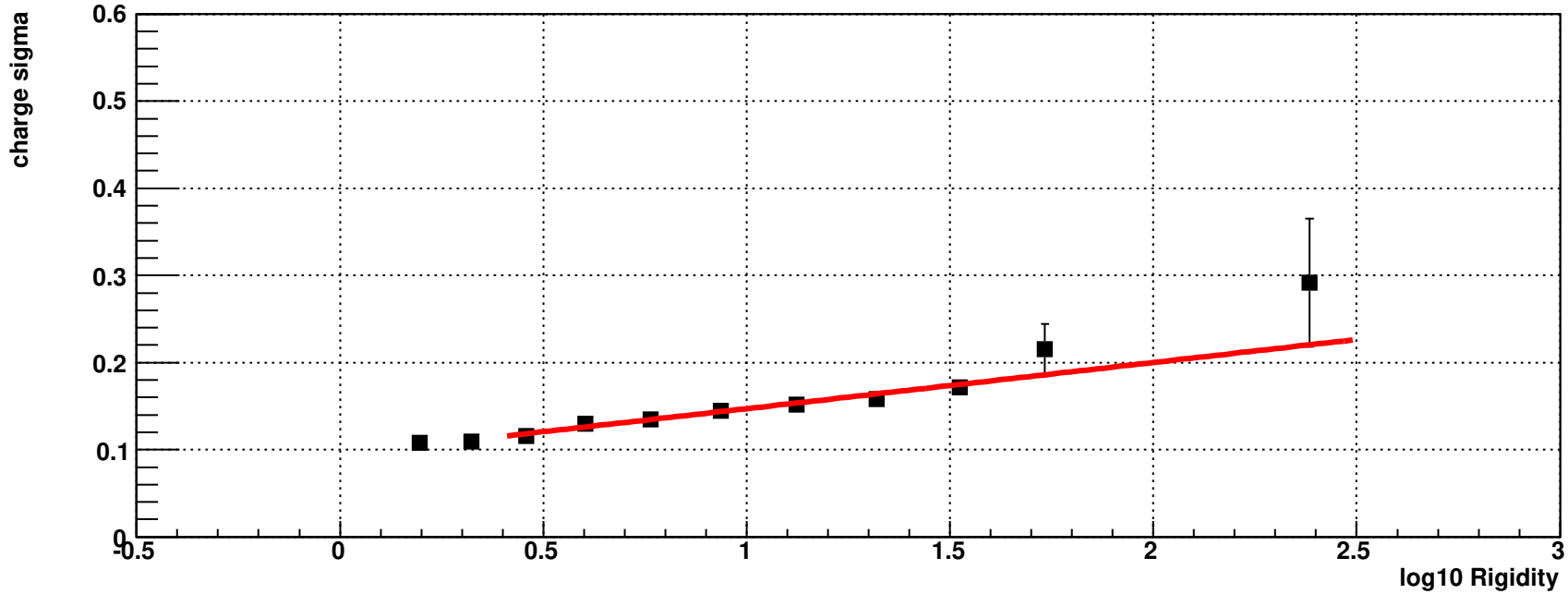

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_10
Entries 180
Mean 3.046
χ² / ndf 29.09 / 27
Constant 5.811 ± 0.774
Mean 3.023 ± 0.025
Sigma 0.2155 ± 0.0286
charge

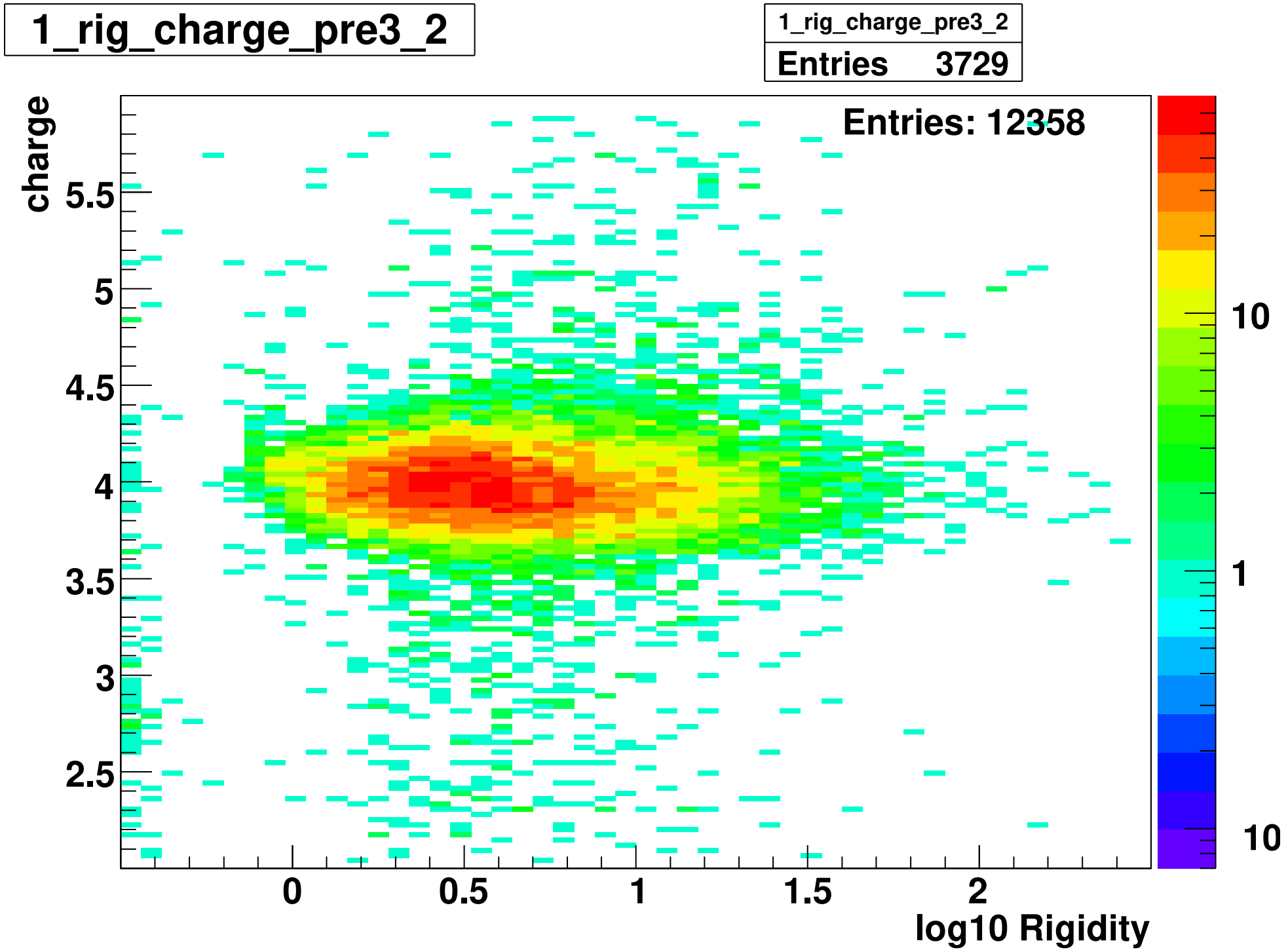

1_rig_charge_pre3_1
1_rig_charge_pre3_1_py_11
Entries 95
Mean 3.121
χ² / ndf 20.38 / 28
Constant 3.038 ± 0.569
Mean 3.016 ± 0.050
Sigma 0.2916 ± 0.0736
charge

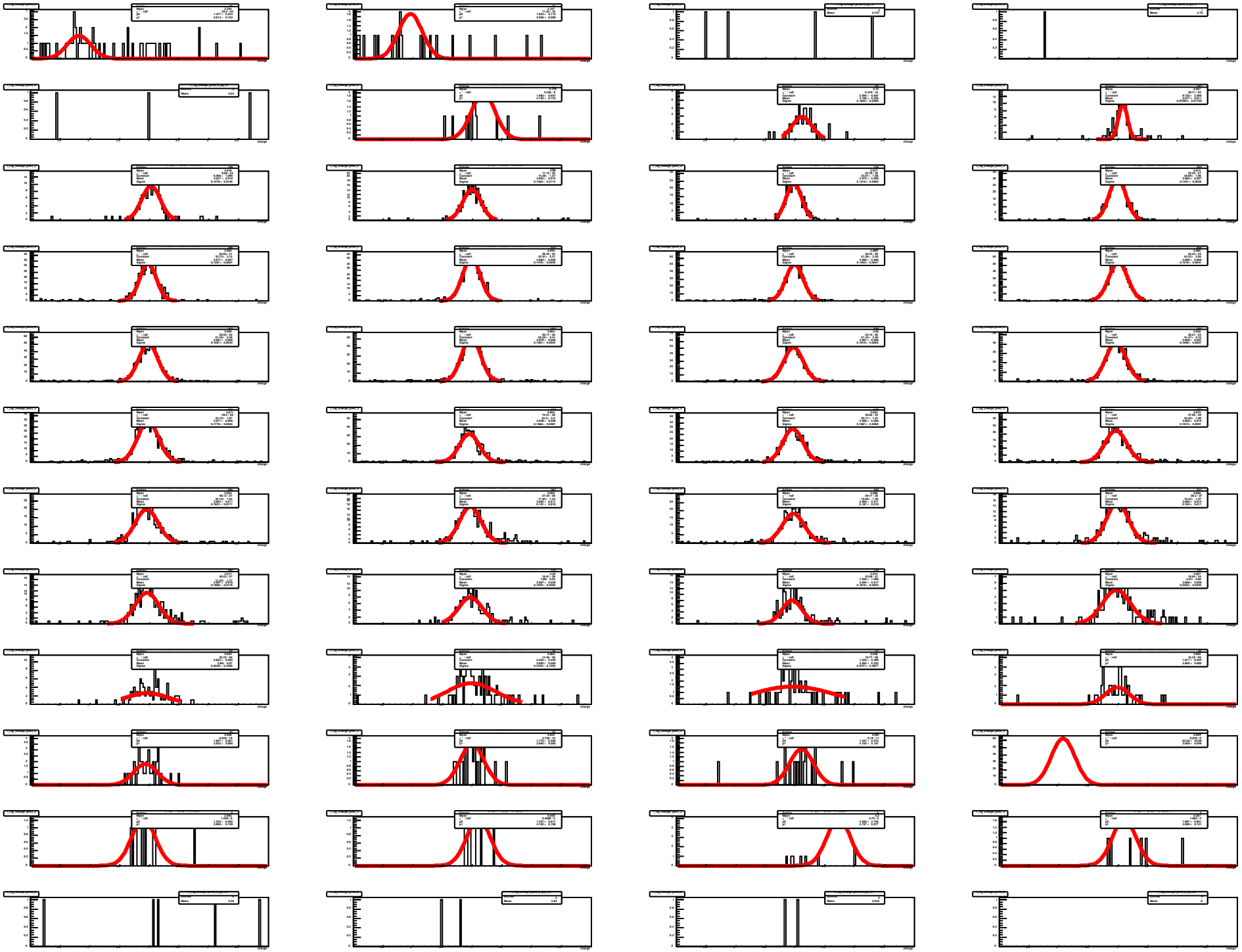
1_rig_charge_pre3_1 Lithium



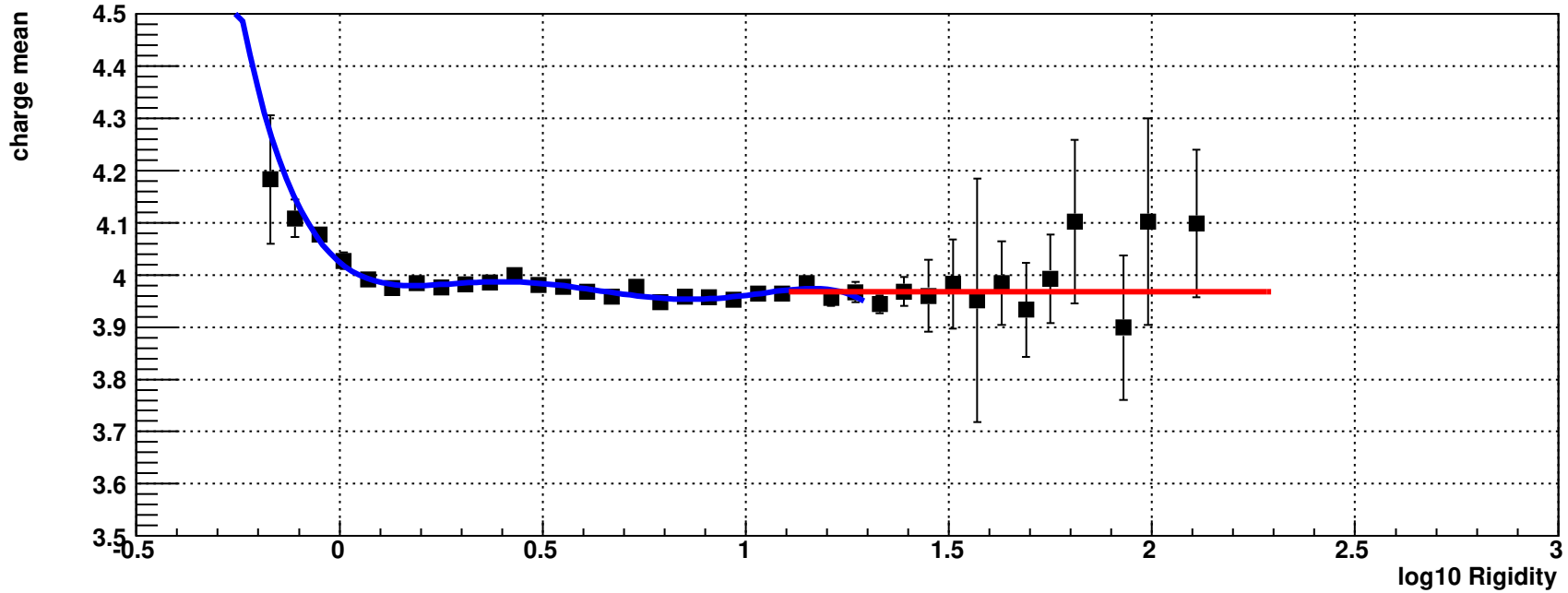
1_rig_charge_pre3_1 Lithium



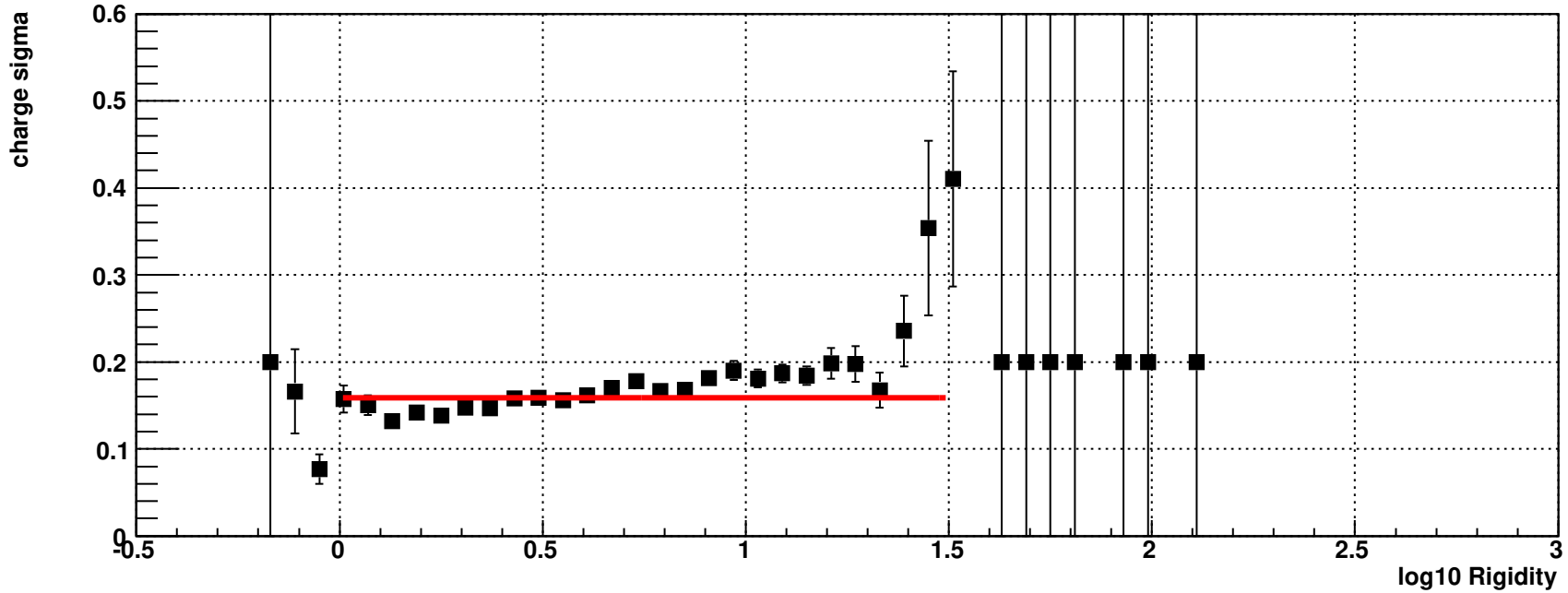

1_rig_charge_pre3_2
1_rig_charge_pre3_2
Entries 3729
Entries: 12358
charge
5.5
5
4.5
4
3.5
3
2.5
0
0.5
1
1.5
2
log10 Rigidity
10
1
10

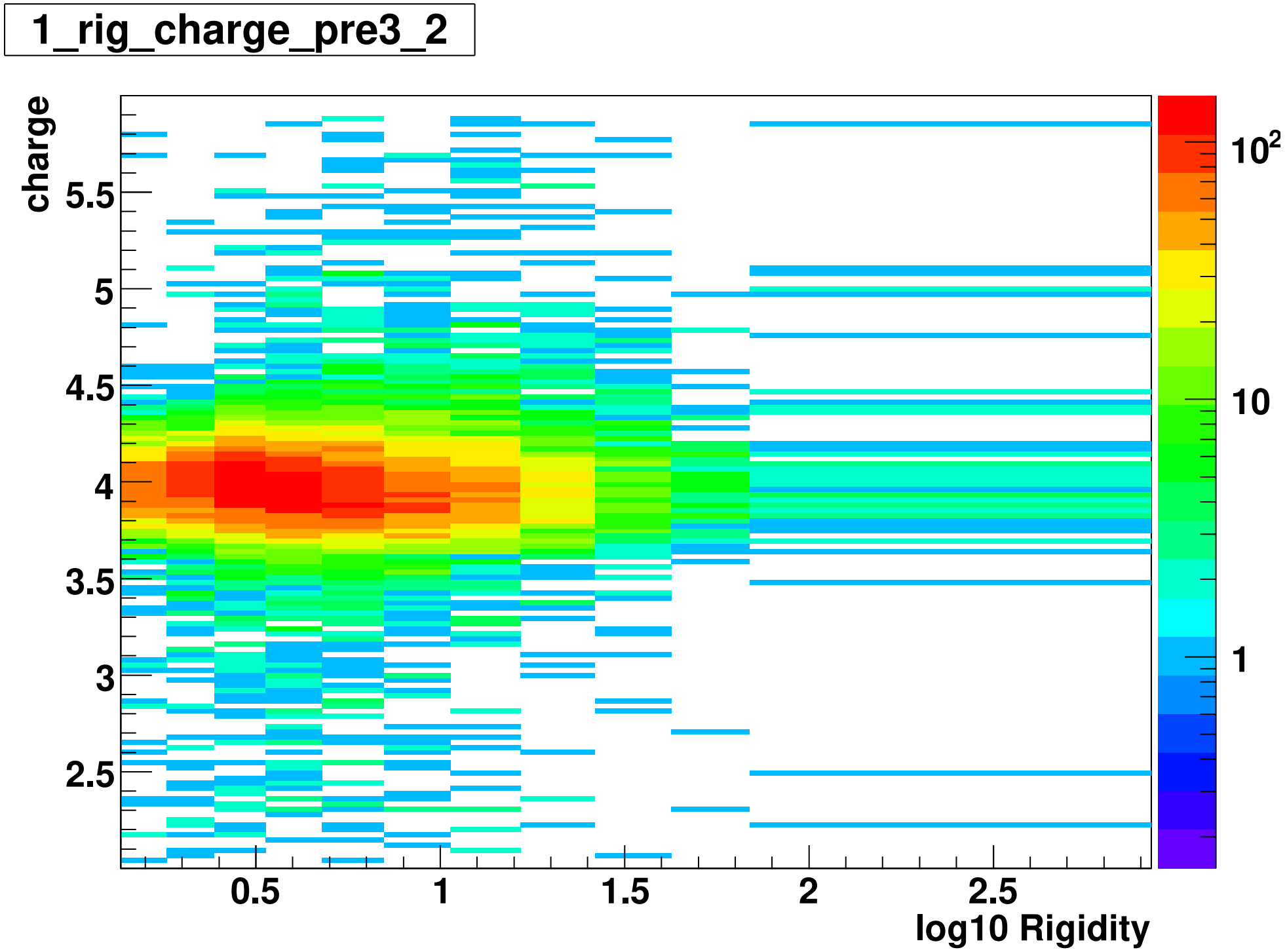


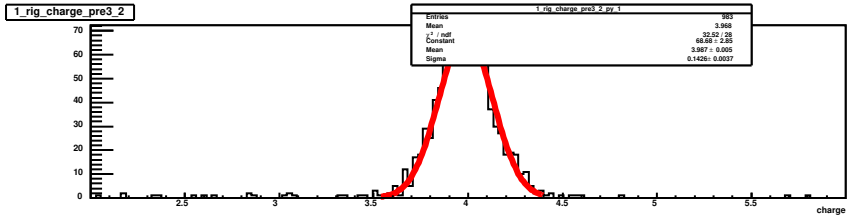
1_rig_charge_pre3_2 Beryllium

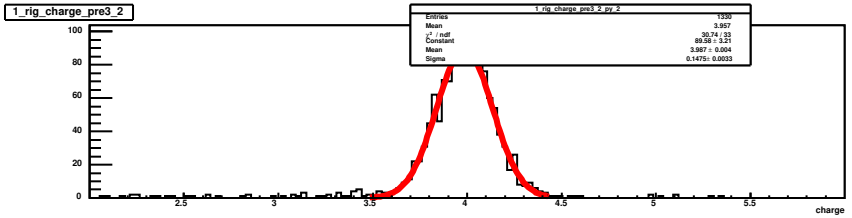


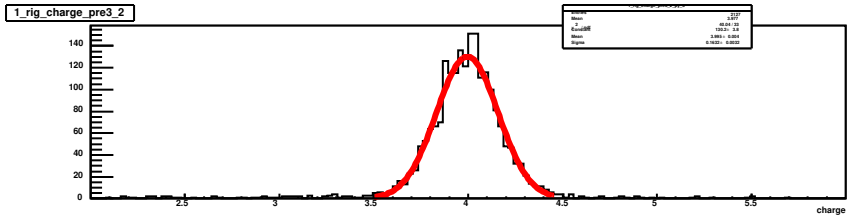
1_rig_charge_pre3_2 Beryllium

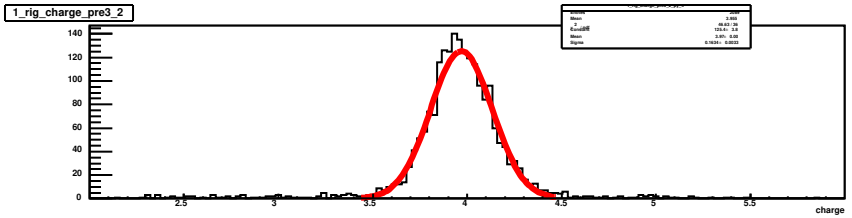


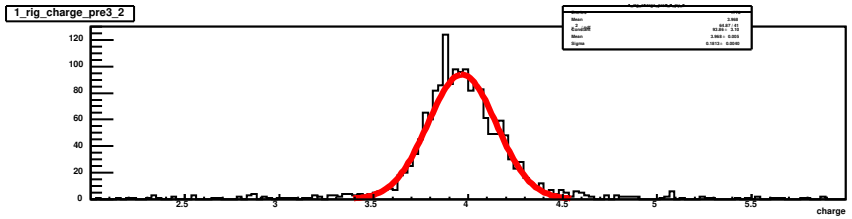

1_rig_charge_pre3_2
charge
5.5
5
4.5
4
3.5
3
2.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

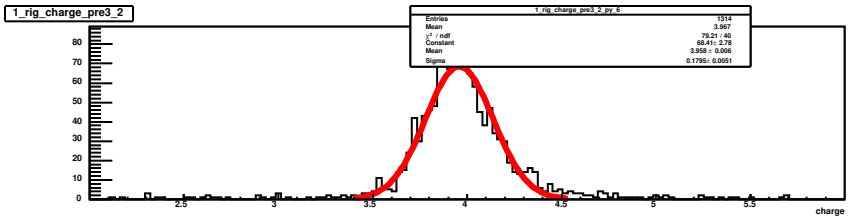

1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_1
Entries 983
Mean 3.968
χ² / ndf 32.92 / 28
Constant 68.68 ± 2.85
Mean 3.987 ± 0.005
Sigma 0.1426 ± 0.0037
charge

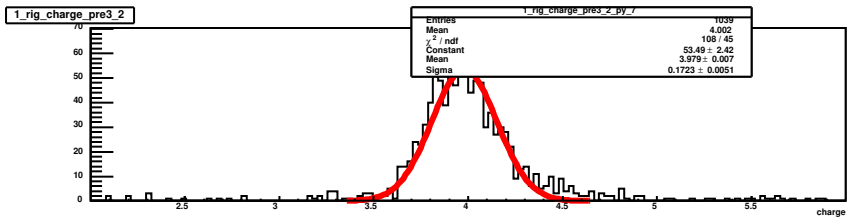

1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_2
Entries 1936
Mean 3.957
χ² / ndf 30.74 / 33
Constant 89.58 ± 3.21
Mean 3.987 ± 0.004
Sigma 0.1475 ± 0.0033
charge

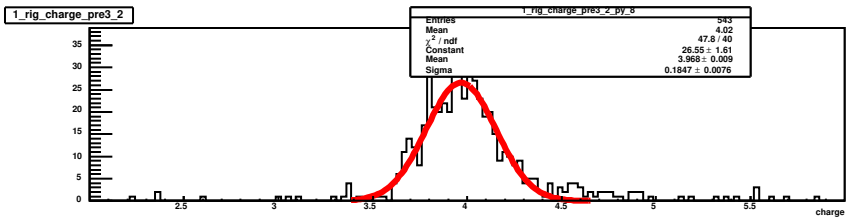

1_rig_charge_pre3_2
charge

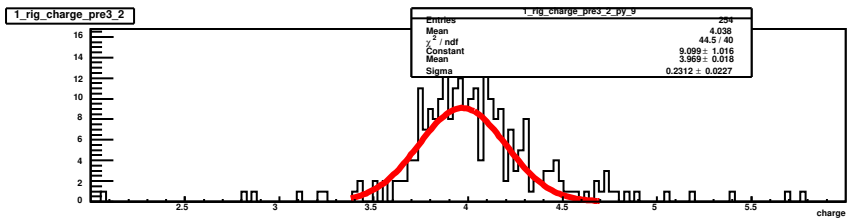

1_rig_charge_pre3_2
charge

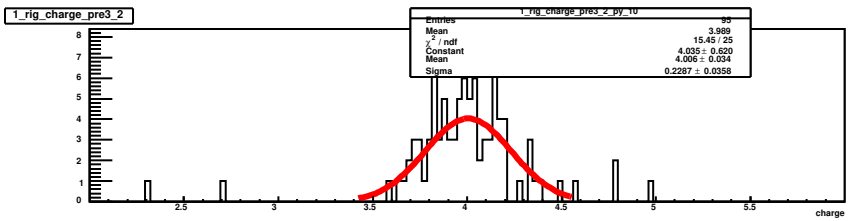

1_rig_charge_pre3_2
charge

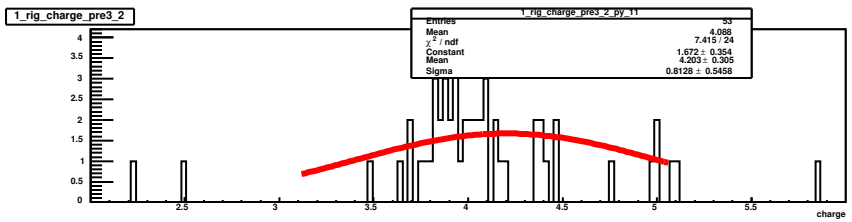

1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_6
Entries 1314
Mean 3.967
χ² / ndf 79.21 / 40
Constant 68.41 ± 2.76
Mean 3.958 ± 0.006
Sigma 0.1795 ± 0.0051
charge


1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_7
Entries 1039
Mean 4.002
χ² / ndf 108 / 45
Constant 53.49 ± 2.42
Mean 3.979 ± 0.007
Sigma 0.1723 ± 0.0051
charge

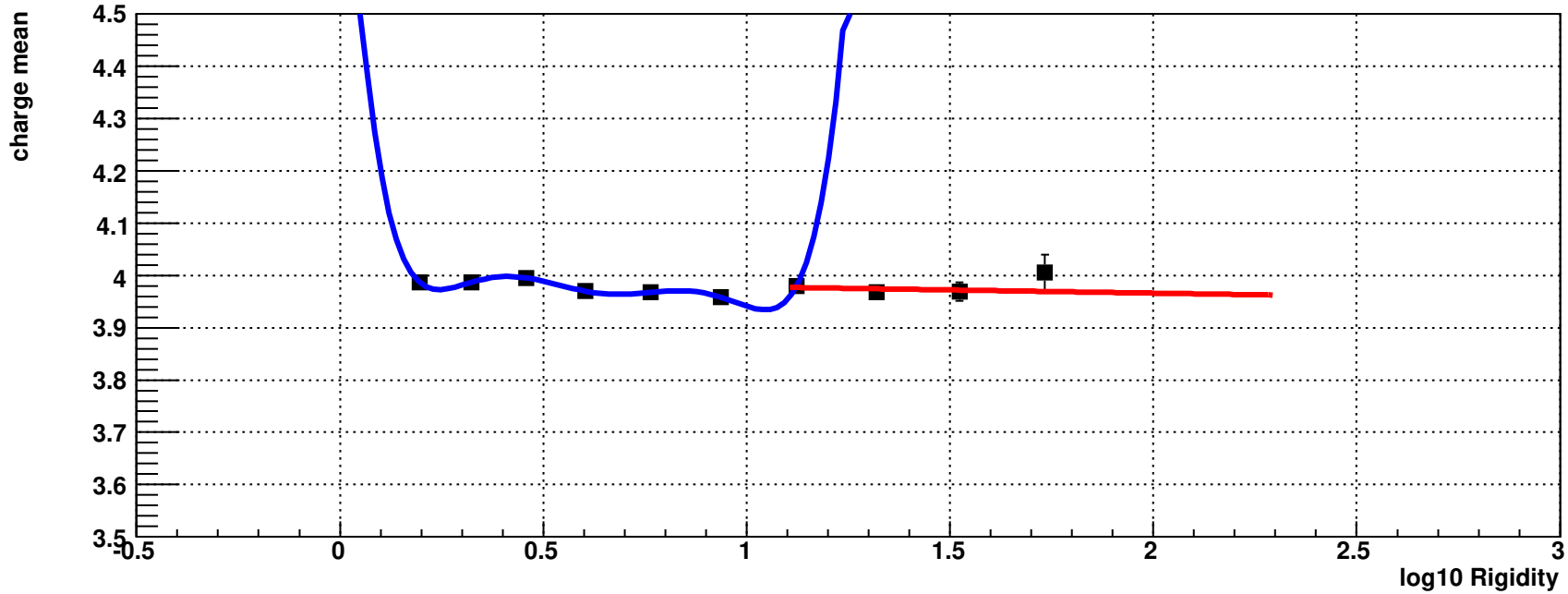

1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_8
Entries 543
Mean 4.02
χ² / ndf 47.8 / 40
Constant 26.55 ± 1.61
Mean 3.968 ± 0.009
Sigma 0.1847 ± 0.0076
charge


1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_9
Entries 294
Mean 4.038
χ² / ndf 44.5 / 40
Constant 9.099 ± 1.016
Mean 3.969 ± 0.018
Sigma 0.2312 ± 0.0227
charge

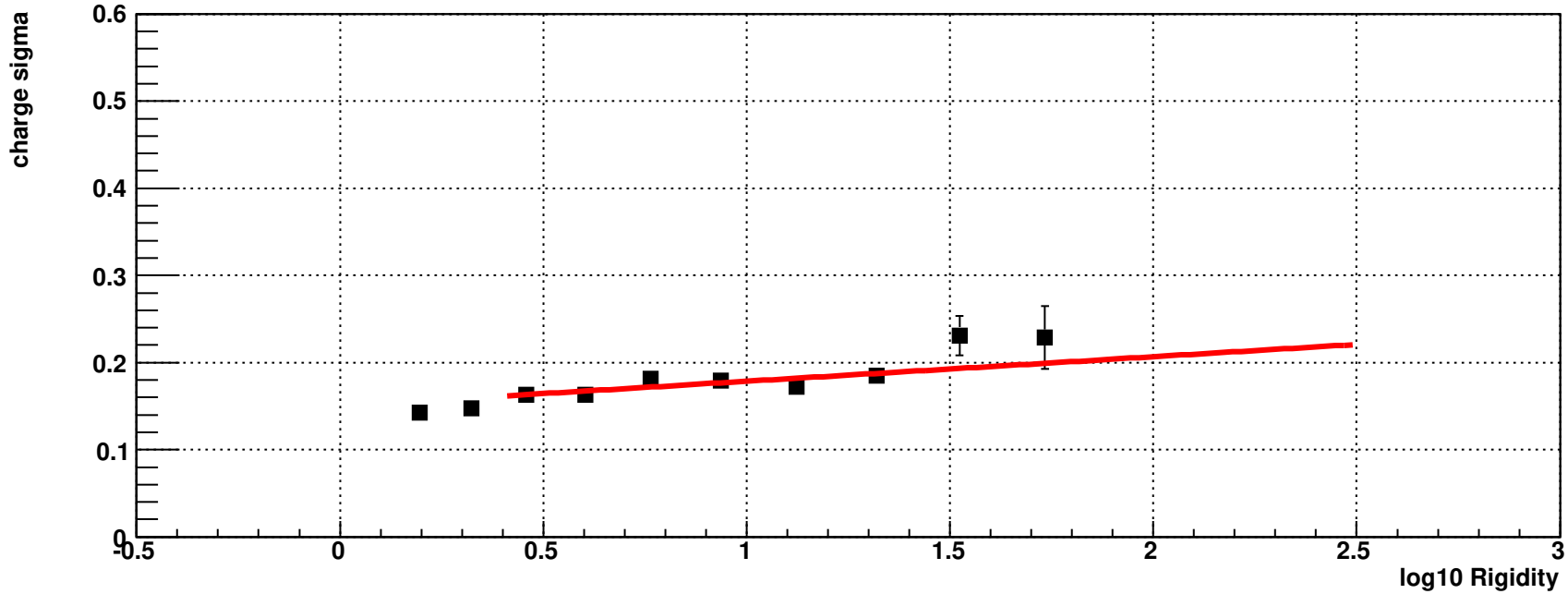

1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_10
Entries 95
Mean 3.989
χ² / ndf 15.45 / 25
Constant 4.035 ± 0.620
Mean 4.006 ± 0.034
Sigma 0.2287 ± 0.0358
charge

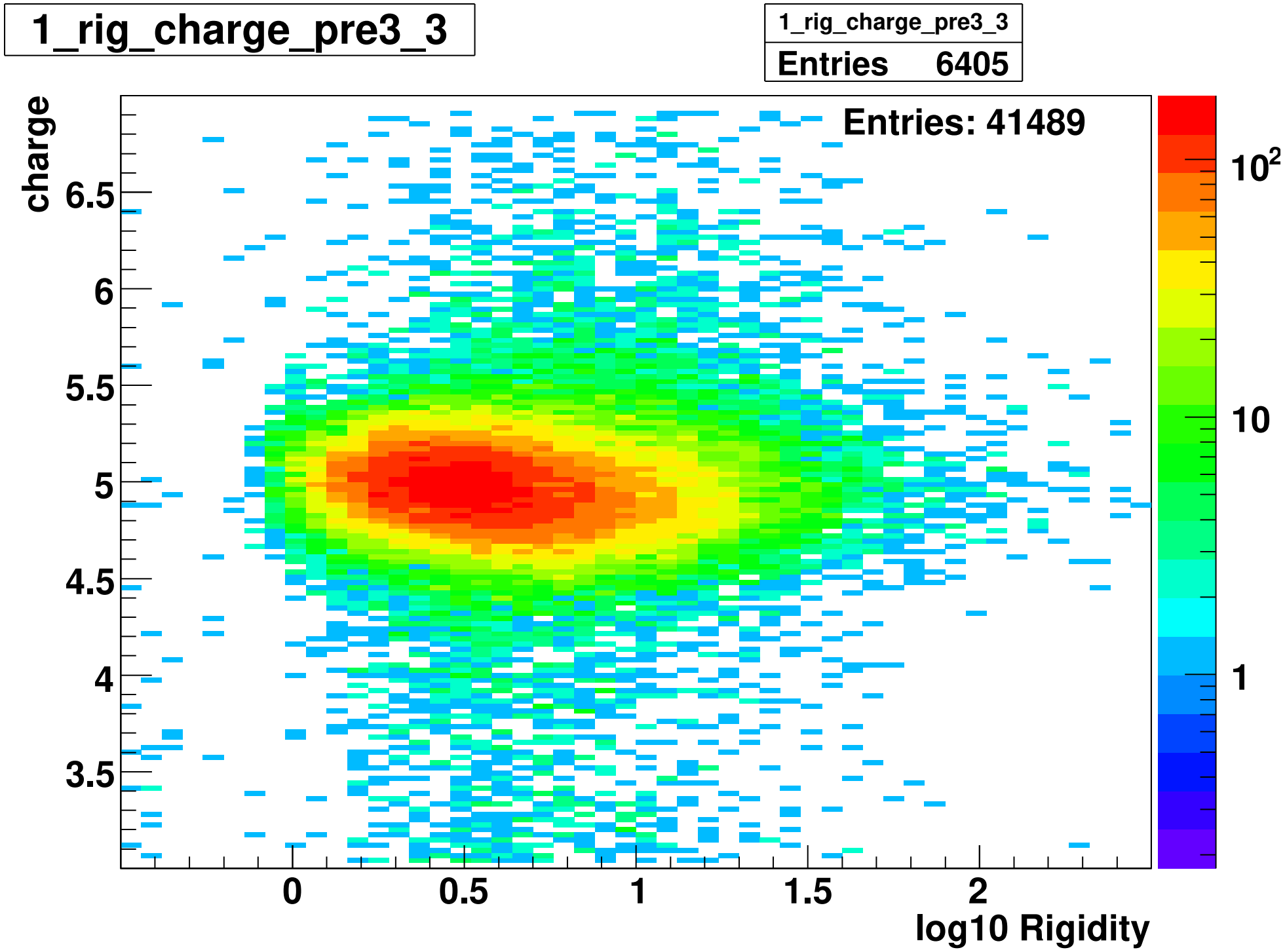

1_rig_charge_pre3_2
1_rig_charge_pre3_2_py_11
Entries 53
Mean 4.088
χ² / ndf 7.415 / 24
Constant 1.572 ± 0.354
Mean 4.203 ± 0.305
Sigma 0.8128 ± 0.5458
charge

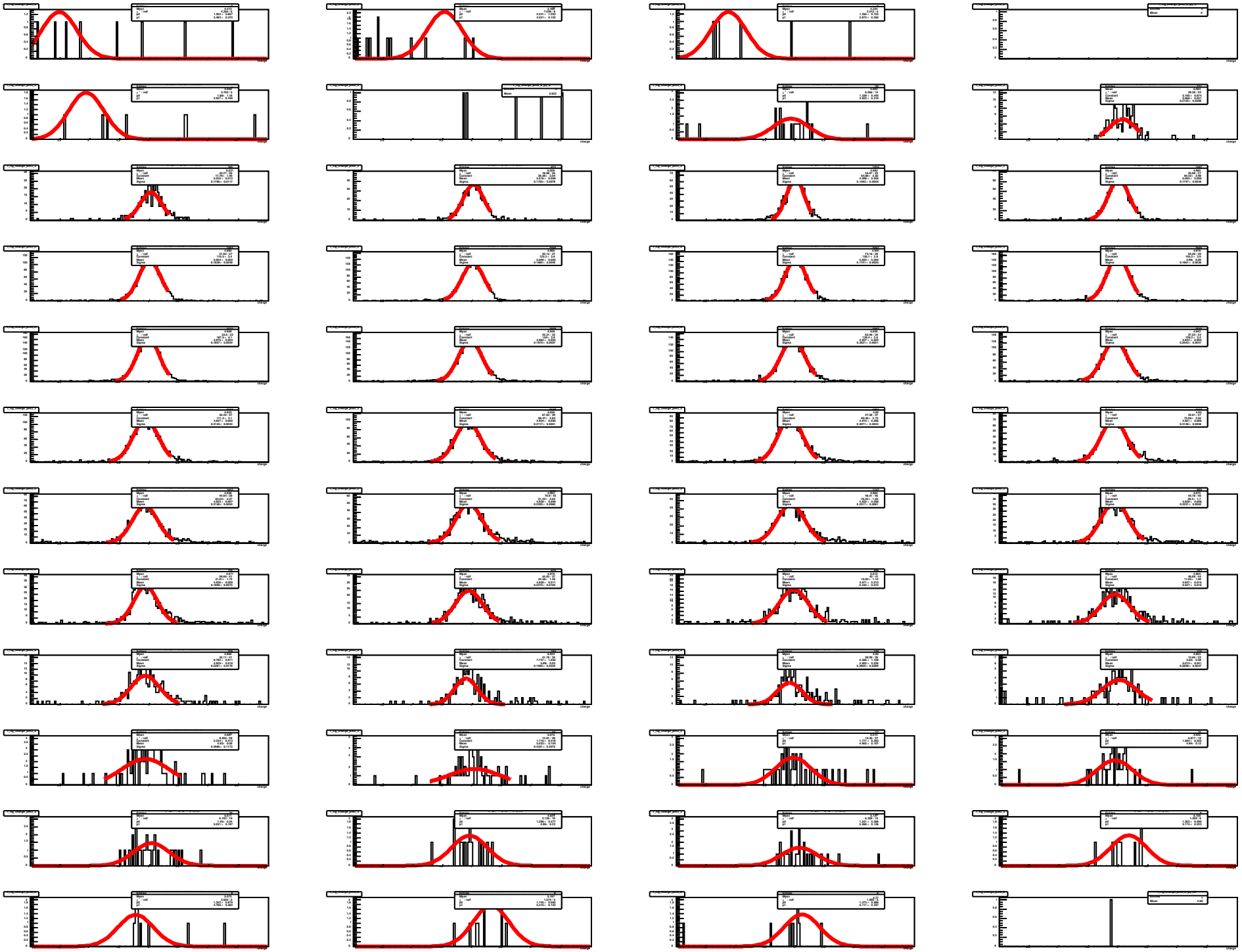
1_rig_charge_pre3_2 Beryllium



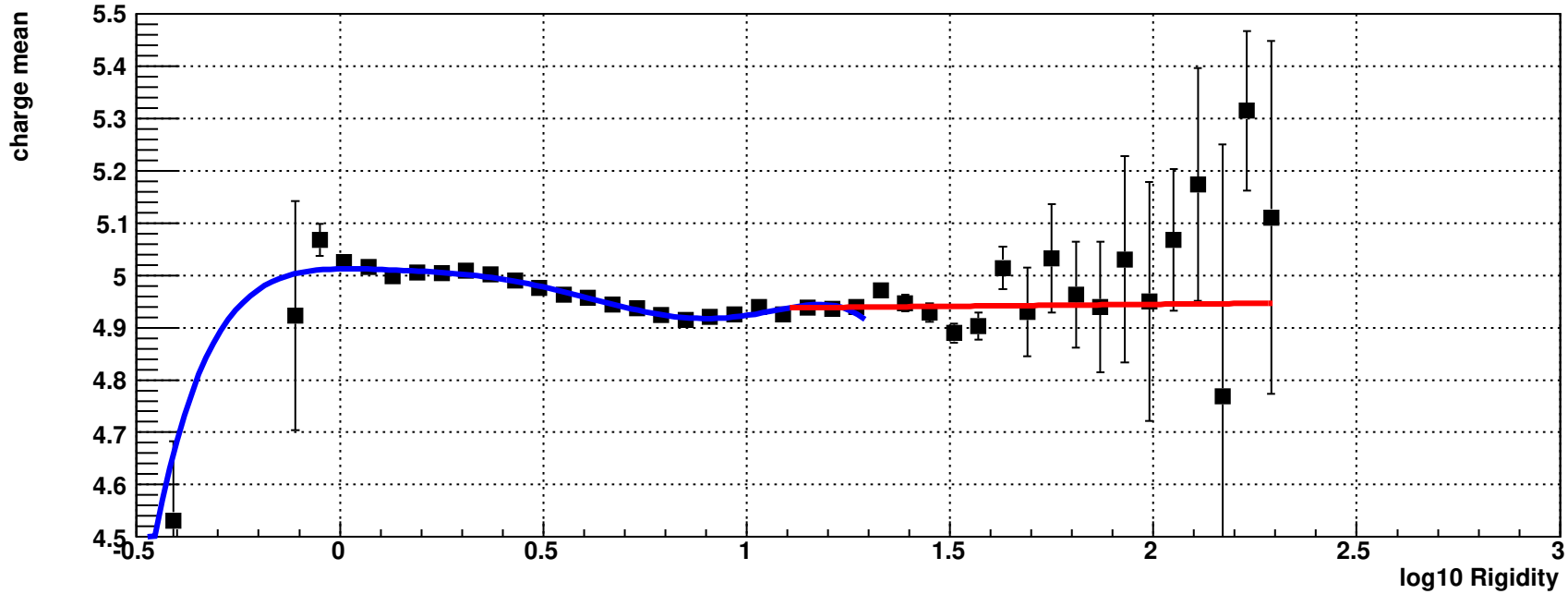
1_rig_charge_pre3_2 Beryllium



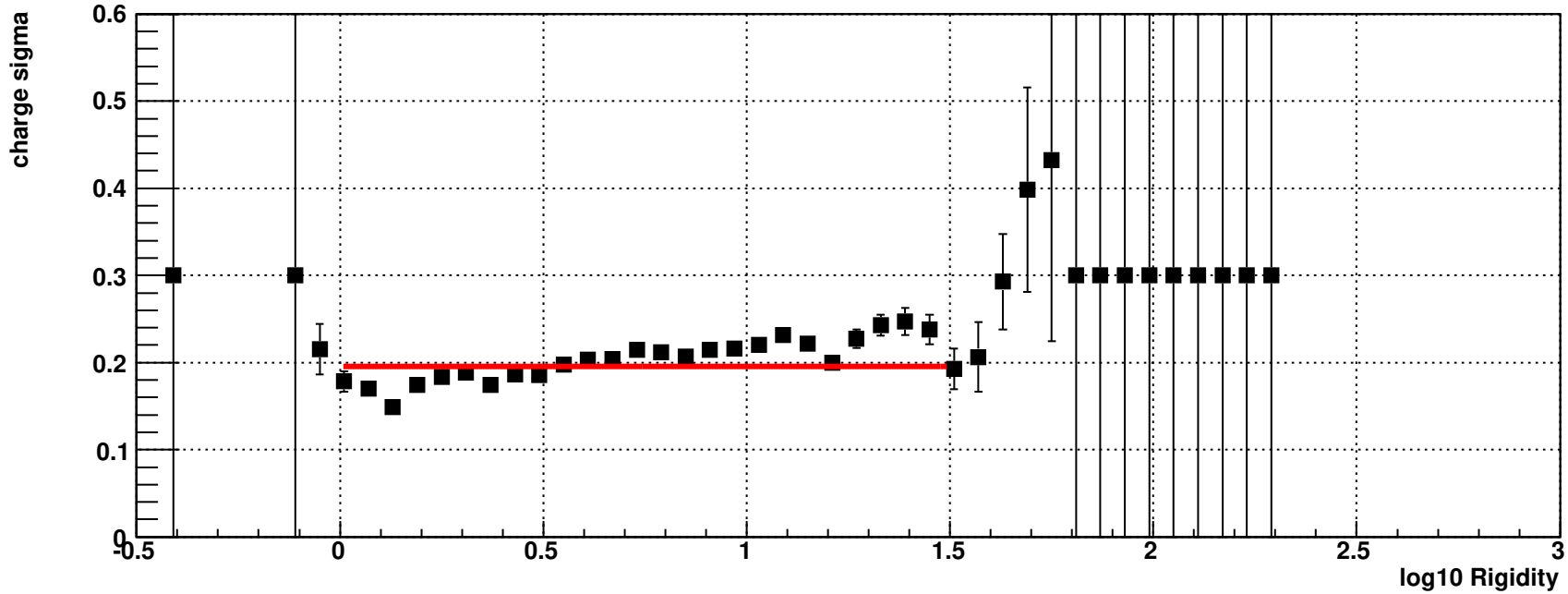

1_rig_charge_pre3_3
1_rig_charge_pre3_3
Entries 6405
Entries: 41489
charge
6.5
6
5.5
5
4.5
4
3.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

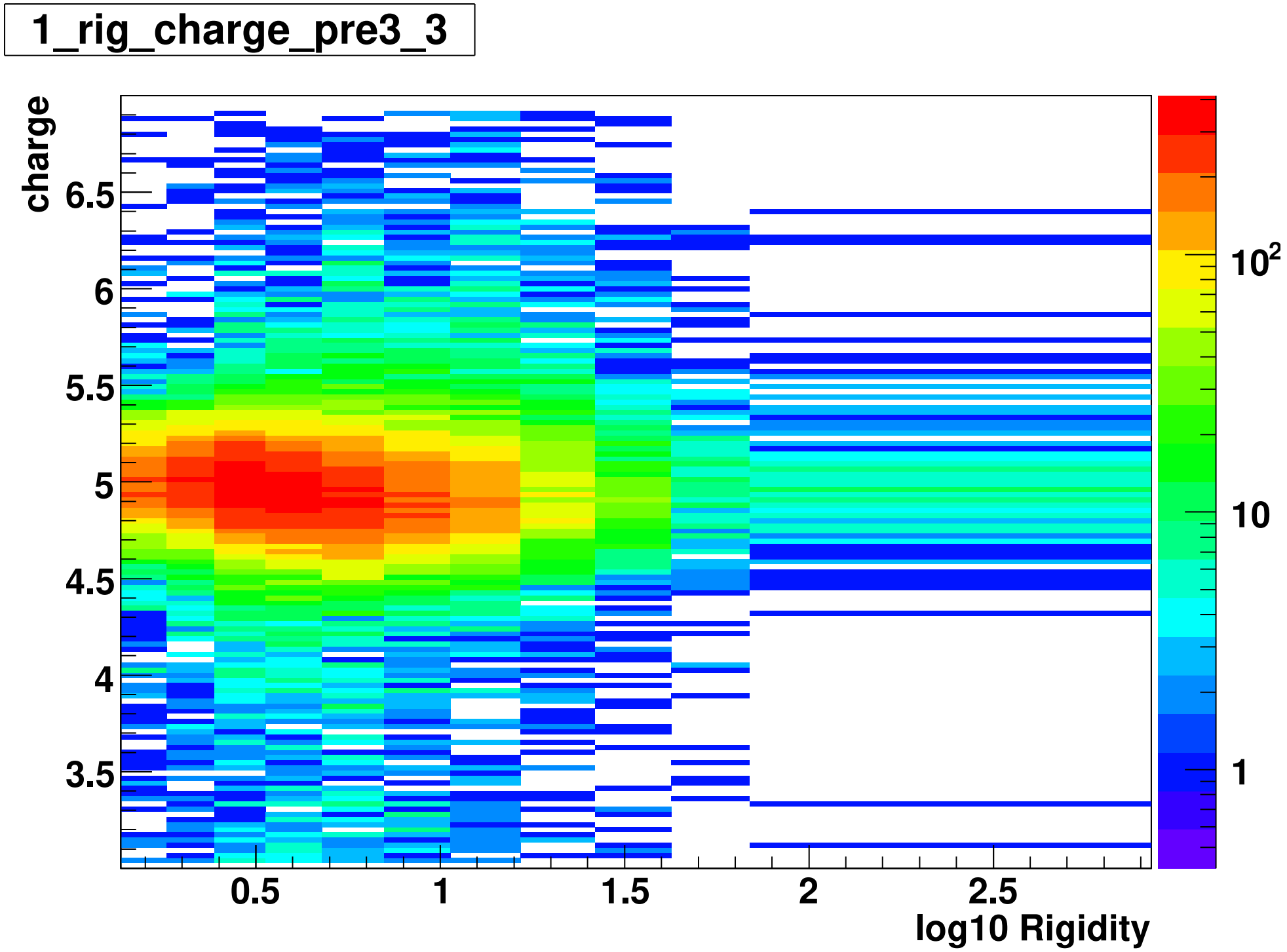


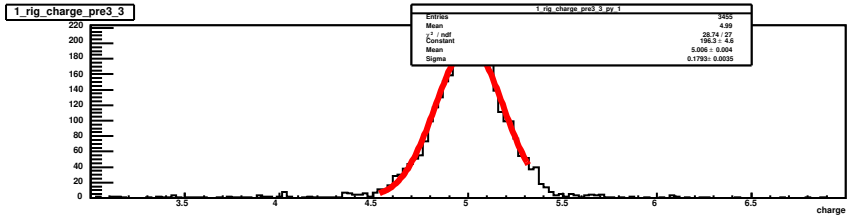
1_rig_charge_pre3_3 Boron

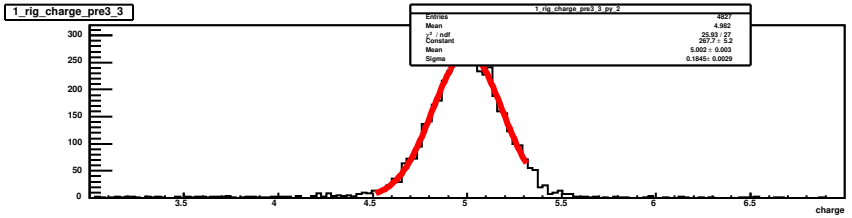


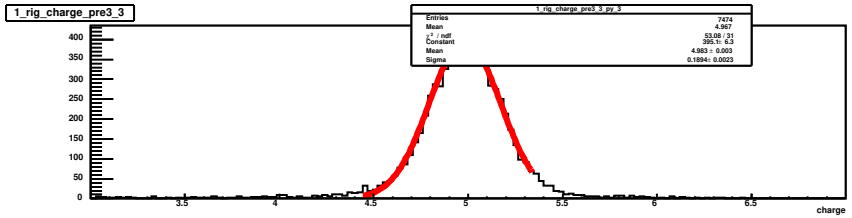
1_rig_charge_pre3_3 Boron

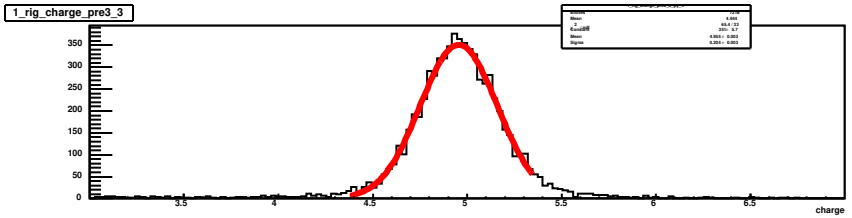


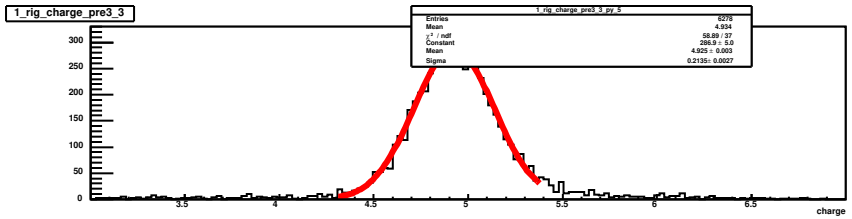

1_rig_charge_pre3_3
charge
6.5
6
5.5
5
4.5
4
3.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^2
10
1

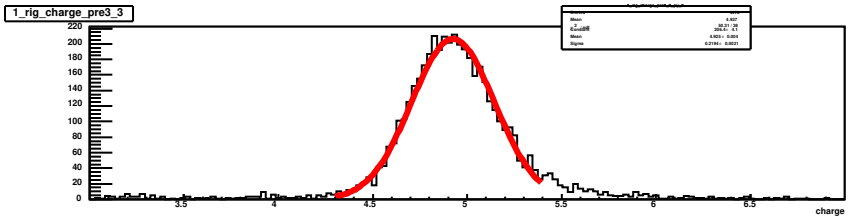

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_1
Entries 3455
Mean 4.99
χ² / ndf 28.74 / 27
Constant 196.3 ± 4.6
Mean 5.006 ± 0.004
Sigma 0.1793 ± 0.0035
charge

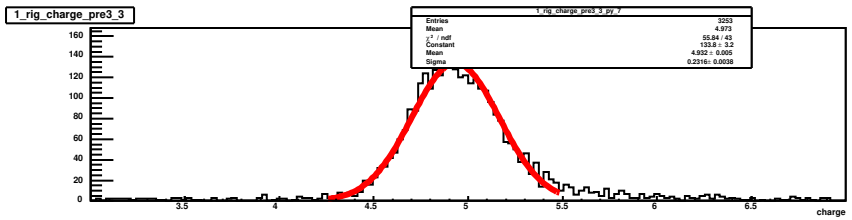

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_2
Entries 4927
Mean 4.982
χ² / ndf 25.93 / 27
Constant 287.7 ± 5.2
Mean 5.002 ± 0.003
Sigma 0.1845 ± 0.0029
charge

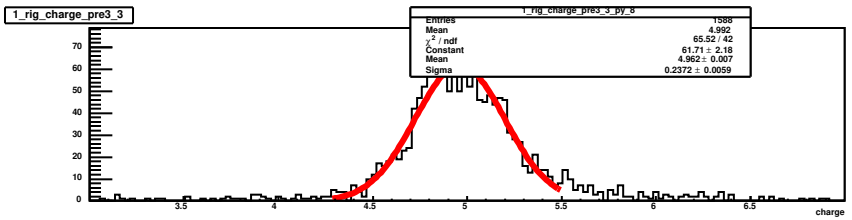

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_3
Entries 7474
Mean 4.967
χ² / ndf 53.08 / 31
Constant 395.1 ± 6.3
Mean 4.983 ± 0.003
Sigma 0.1894 ± 0.0023
charge

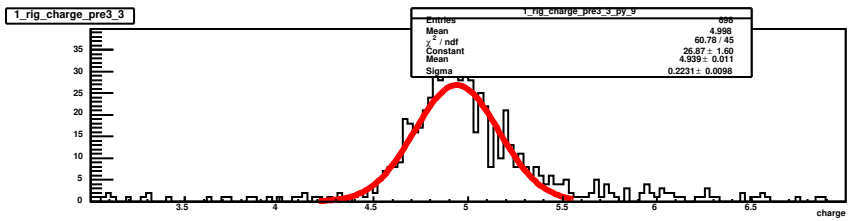

1_rig_charge_pre3_3
charge

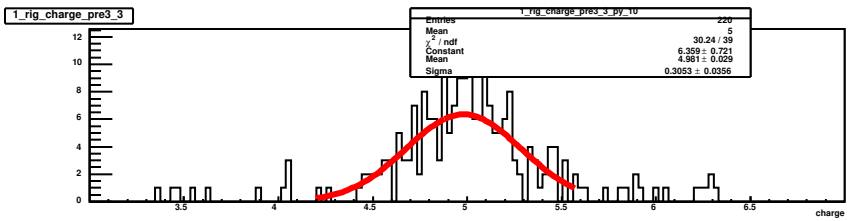

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_5
Entries 6278
Mean 4.934
χ² / ndf 58.89 / 37
Constant 286.9 ± 5.0
Mean 4.925 ± 0.003
Sigma 0.2135 ± 0.0027
charge

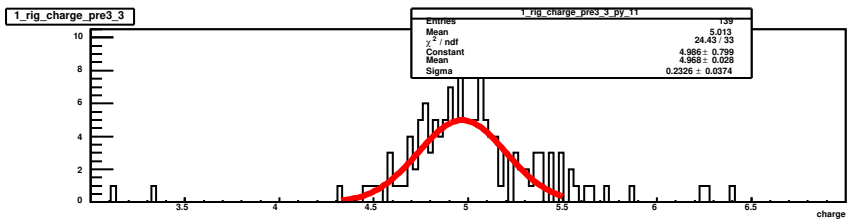

1_rig_charge_pre3_3
charge


1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_7
Entries 3253
Mean 4.973
χ² / ndf 55.84 / 43
Constant 133.8 ± 3.2
Mean 4.932 ± 0.005
Sigma 0.2316 ± 0.0038
charge

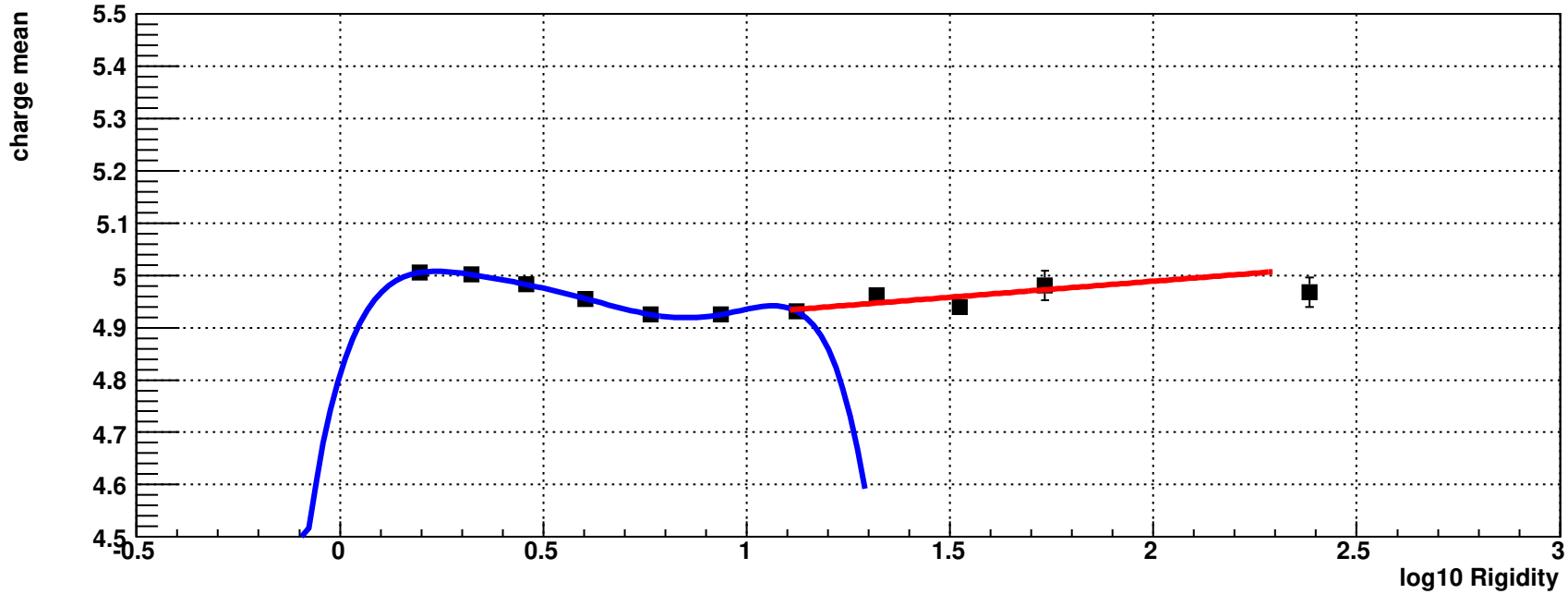

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_8
Entries 1588
Mean 4.992
χ² / ndf 55.52 / 42
Constant 61.71 ± 2.18
Mean 4.962 ± 0.007
Sigma 0.2372 ± 0.0059
charge


1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_9
Entries 896
Mean 4.998
χ² / ndf 60.78 / 45
Constant 26.87 ± 1.60
Mean 4.939 ± 0.011
Sigma 0.2231 ± 0.0098
charge

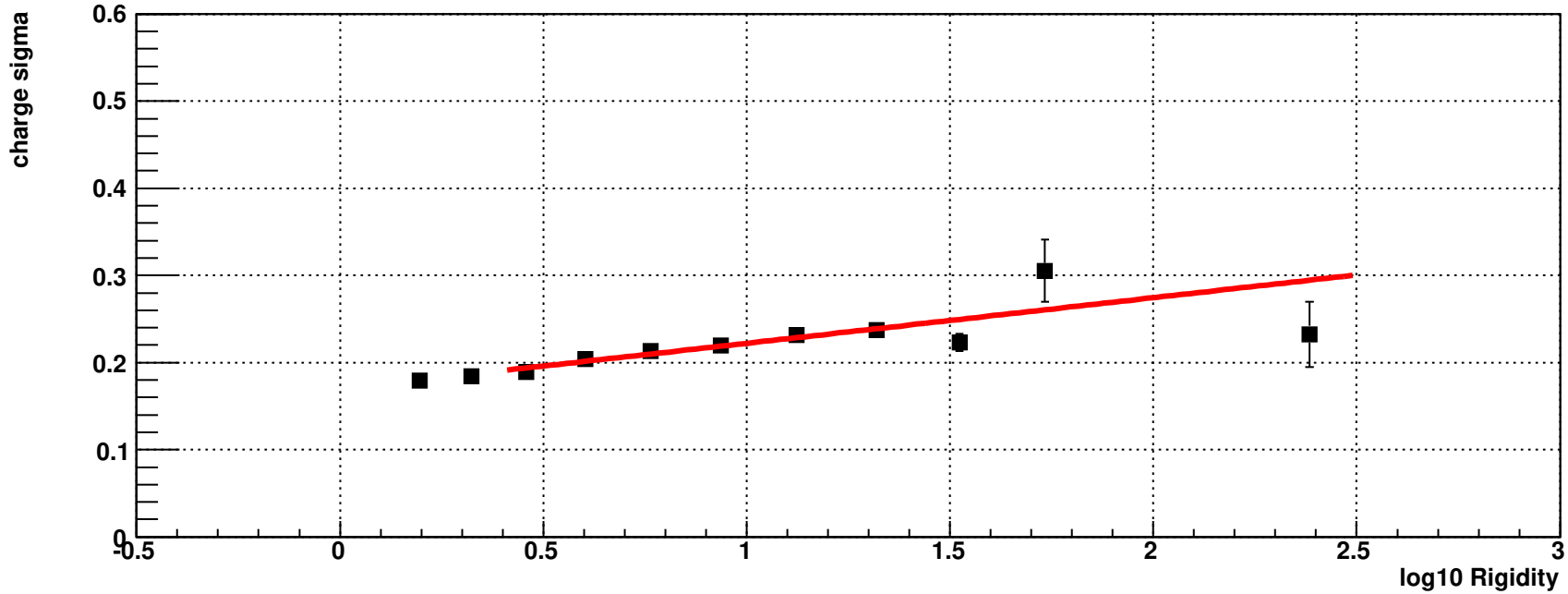

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_10
Entries 220
Mean 5
χ² / ndf 30.24 / 39
Constant 6.359 ± 0.721
Mean 4.981 ± 0.029
Sigma 0.3053 ± 0.0356
charge

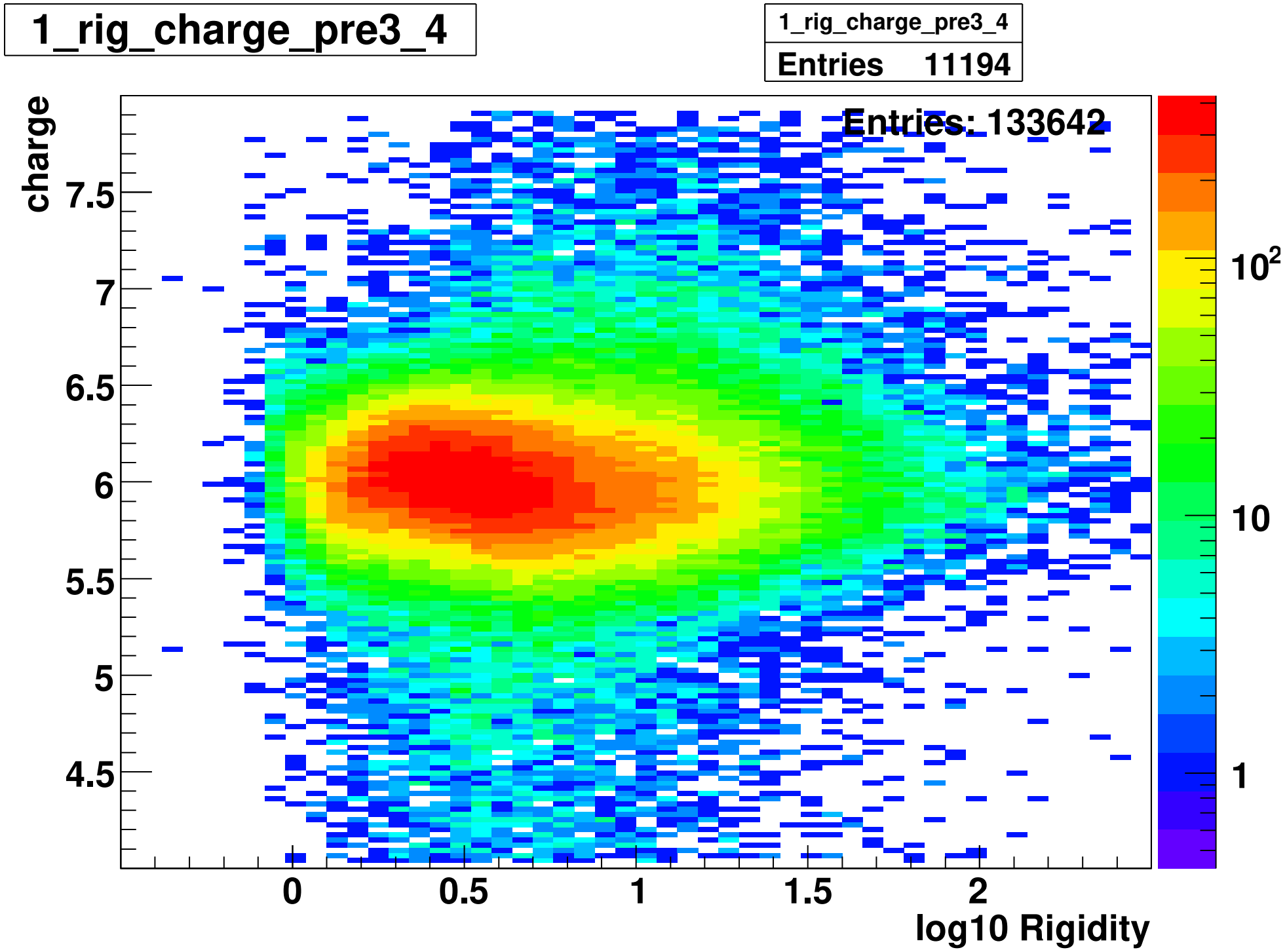

1_rig_charge_pre3_3
1_rig_charge_pre3_3_py_11
Entries 139
Mean 5.013
χ² / ndf 24.43 / 33
Constant 4.986 ± 0.799
Mean 4.958 ± 0.028
Sigma 0.2326 ± 0.0374
charge

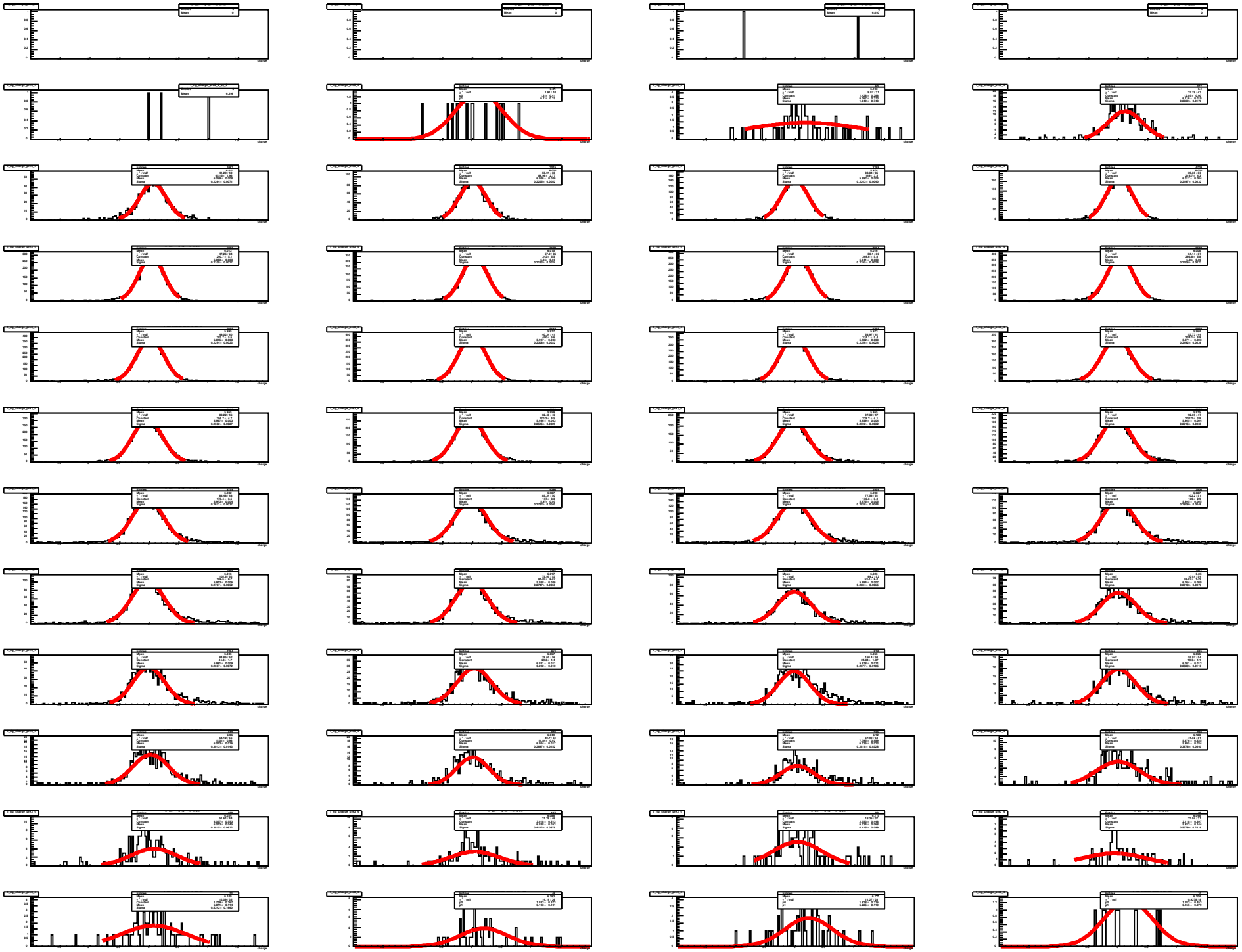
1_rig_charge_pre3_3 Boron



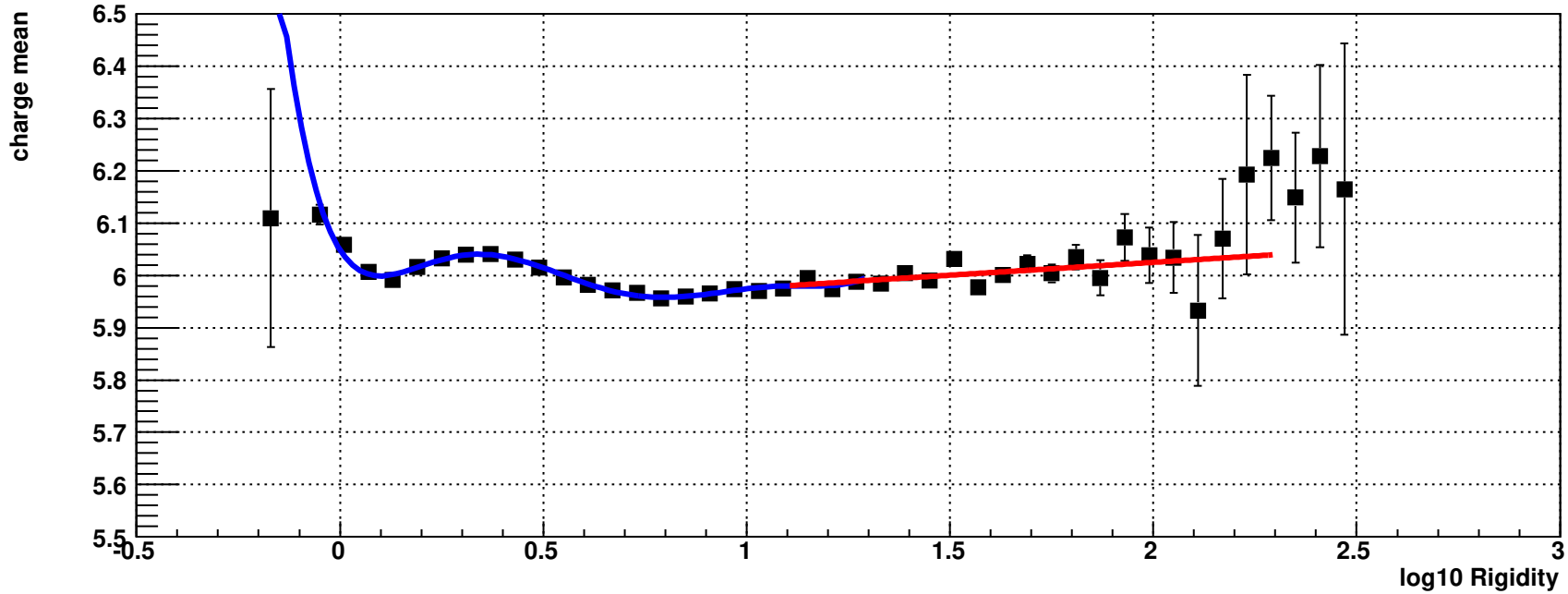
1_rig_charge_pre3_3 Boron



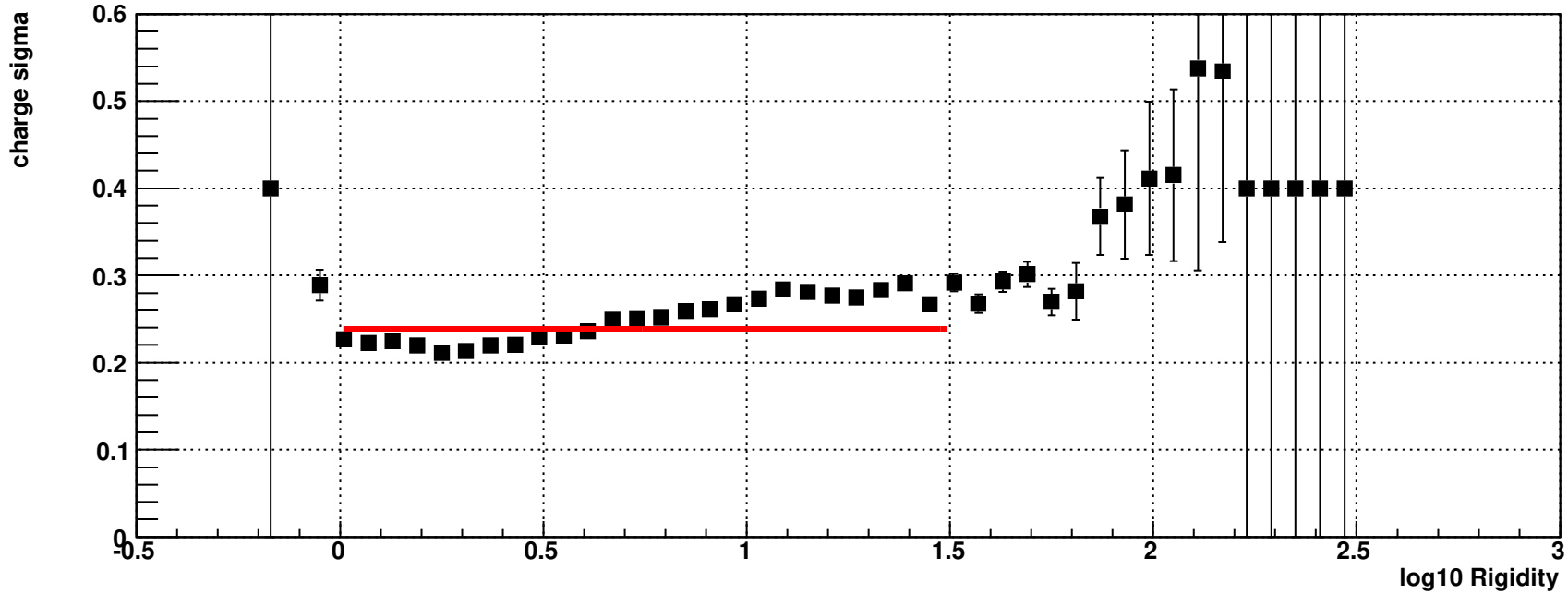

1_rig_charge_pre3_4
1_rig_charge_pre3_4
Entries 11194
Entries: 133642
charge
7.5
7
6.5
6
5.5
5
4.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1

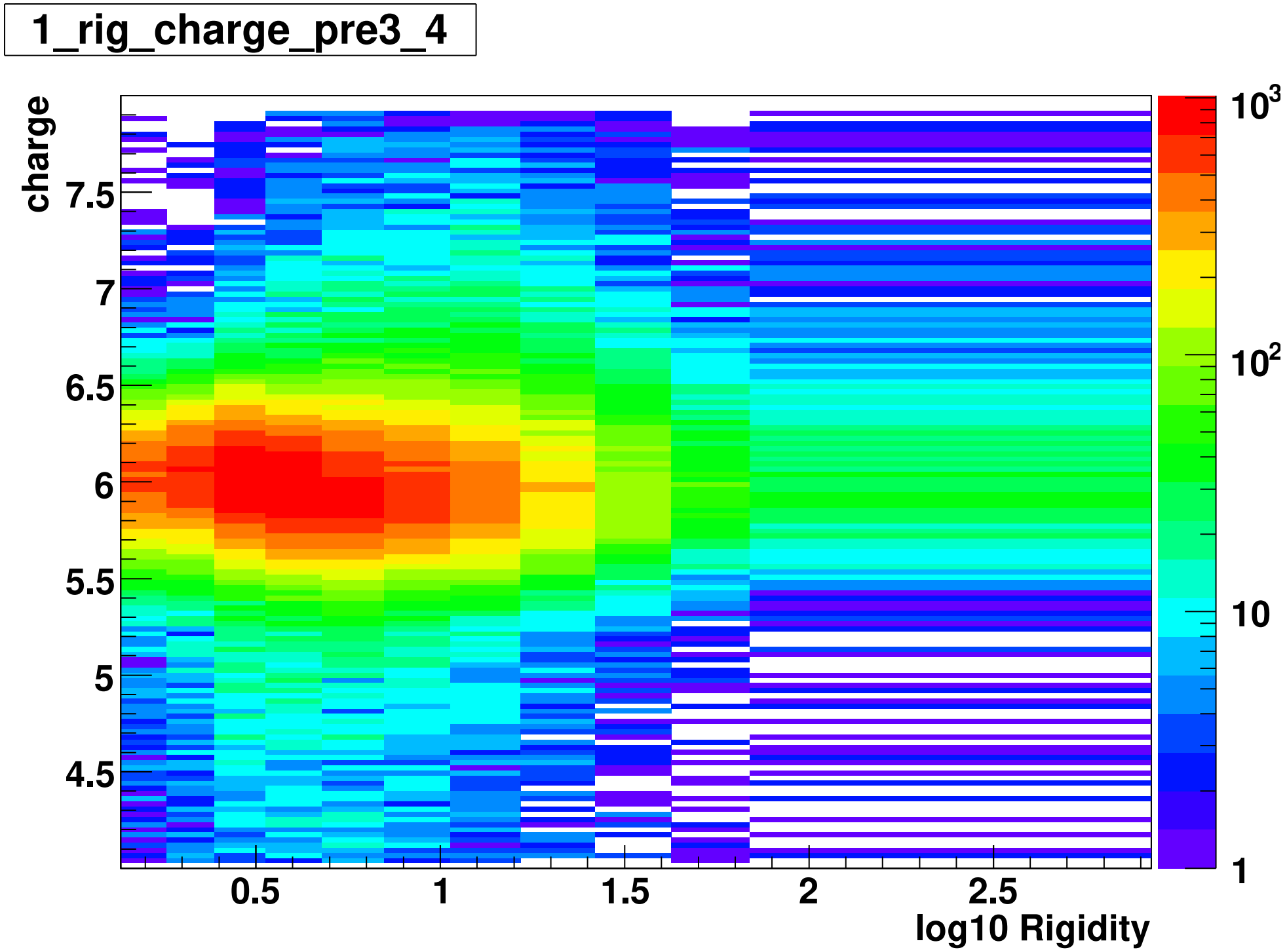


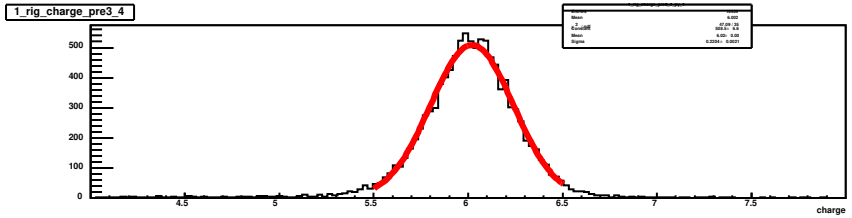
1_rig_charge_pre3_4 Carbon

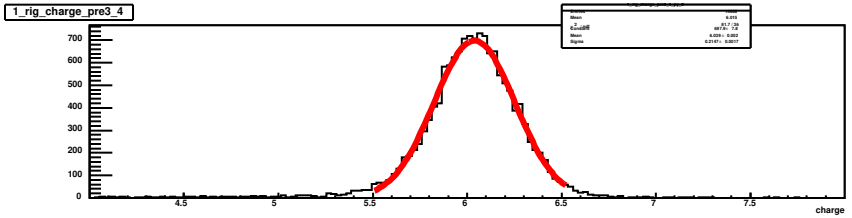


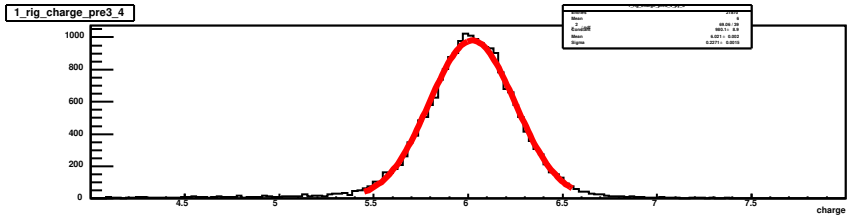
1_rig_charge_pre3_4 Carbon

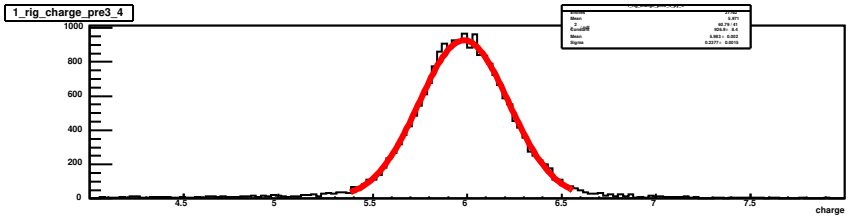


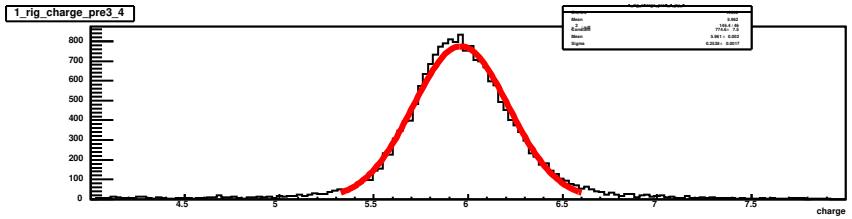

1_rig_charge_pre3_4
charge
7.5
7
6.5
6
5.5
5
4.5
0.5
1
1.5
2
2.5
log10 Rigidity
10^3
10^2
10
1

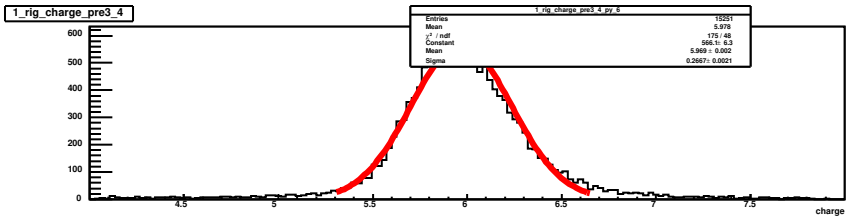

1_rig_charge_pre3_4
charge

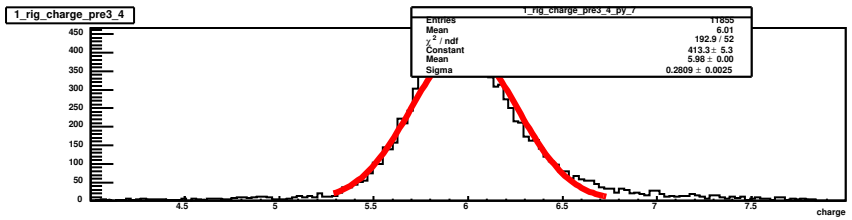

1_rig_charge_pre3_4
charge

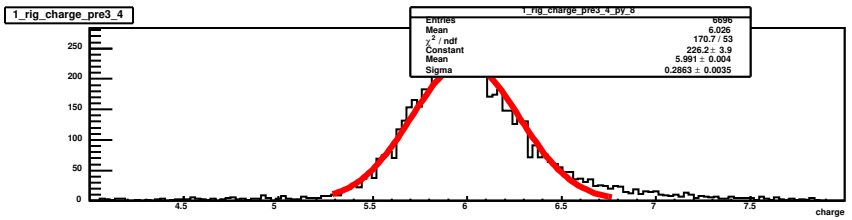

1_rig_charge_pre3_4
charge

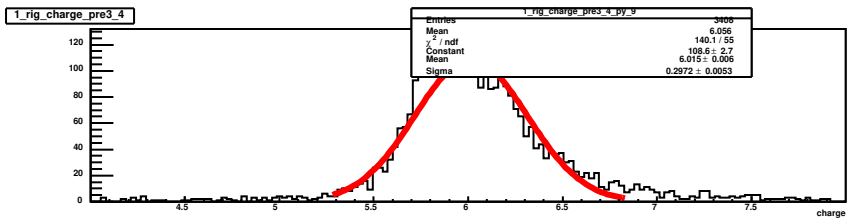

1_rig_charge_pre3_4
charge

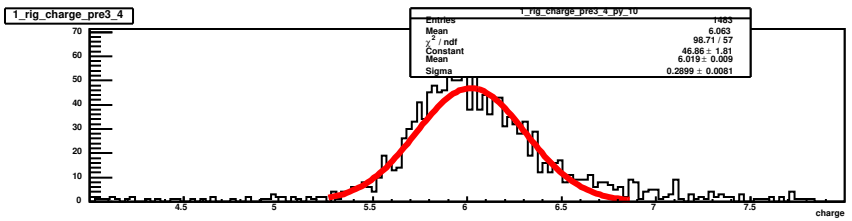

1_rig_charge_pre3_4
charge

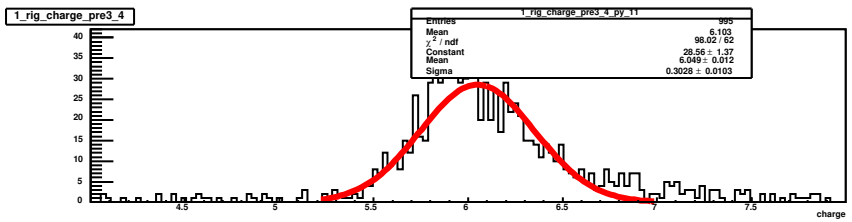

1_rig_charge_pre3_4
1_rig_charge_pre3_4_py_6
Entries 15251
Mean 5.978
χ² / ndf 175 / 46
Constant 596.1± 6.3
Mean 5.969 ± 0.002
Sigma 0.2667± 0.0021
charge


1_rig_charge_pre3_4
1_rig_charge_pre3_4_py_7
Entries 11855
Mean 6.01
χ² / ndf 192.9 / 52
Constant 413.3± 5.3
Mean 5.98 ± 0.00
Sigma 0.2809 ± 0.0025
charge

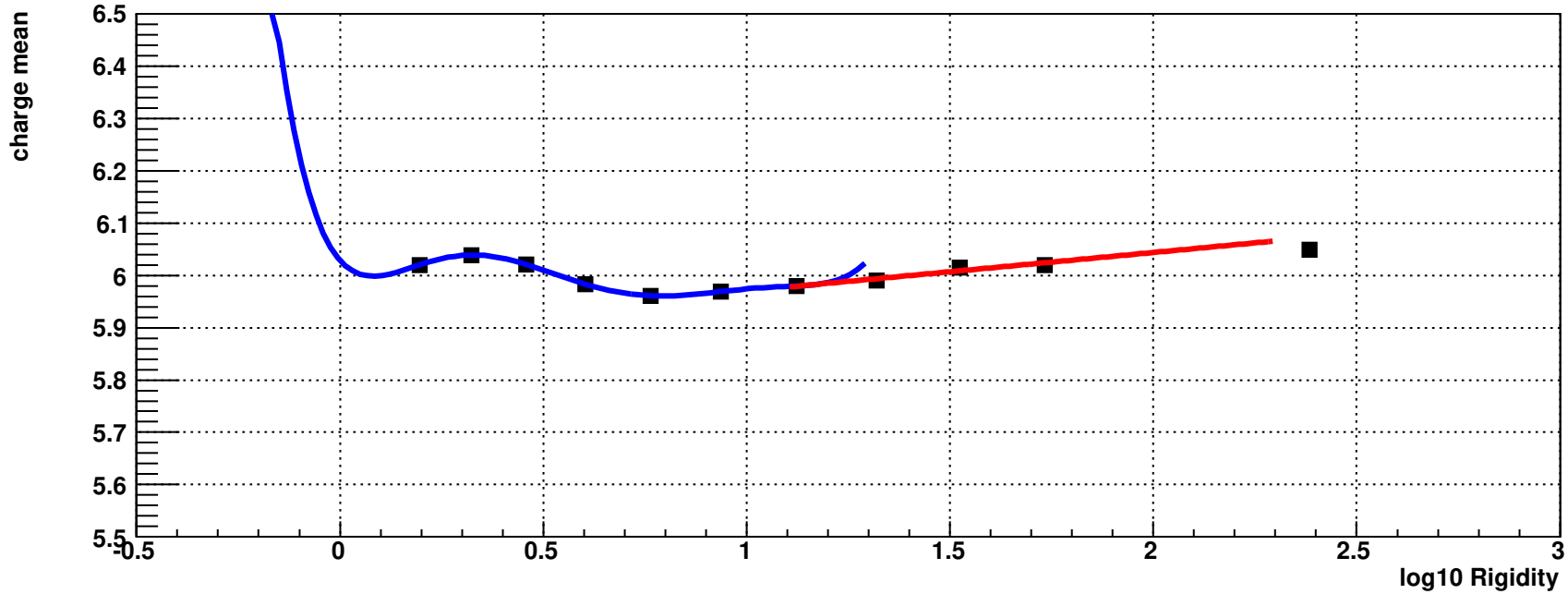

1_rig_charge_pre3_4
1_rig_charge_pre3_4_py_8
Entries 6696
Mean 6.026
χ² / ndf 170.7 / 53
Constant 226.2± 3.9
Mean 5.991 ± 0.004
Sigma 0.2863 ± 0.0035
charge


1_rig_charge_pre3_4
1_rig_charge_pre3_4_py_9
Entries 3406
Mean 6.056
χ² / ndf 140.1 / 55
Constant 108.6± 2.7
Mean 6.015± 0.006
Sigma 0.2972 ± 0.0053
charge

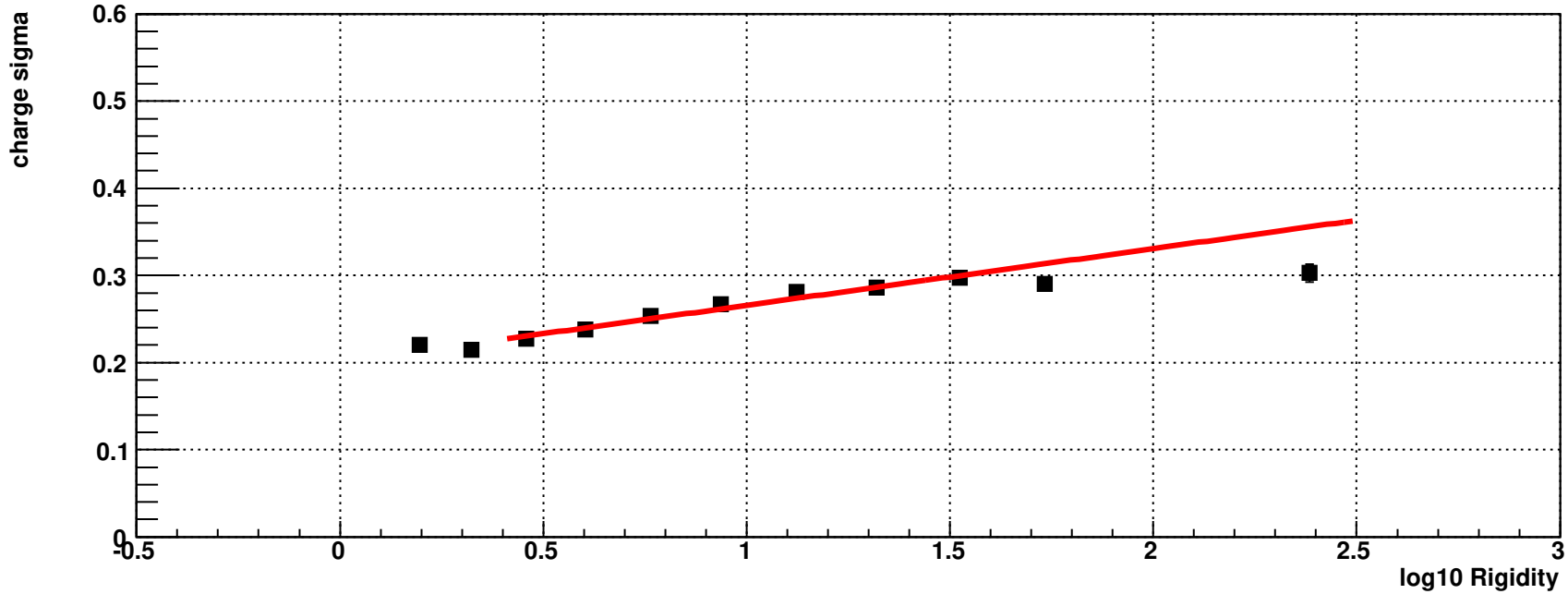

1_rig_charge_pre3_4
1_rig_charge_pre3_4_py_10
Entries 1483
Mean 6.063
χ² / ndf 98.71 / 57
Constant 46.86± 1.81
Mean 6.019± 0.009
Sigma 0.2899 ± 0.0081
charge

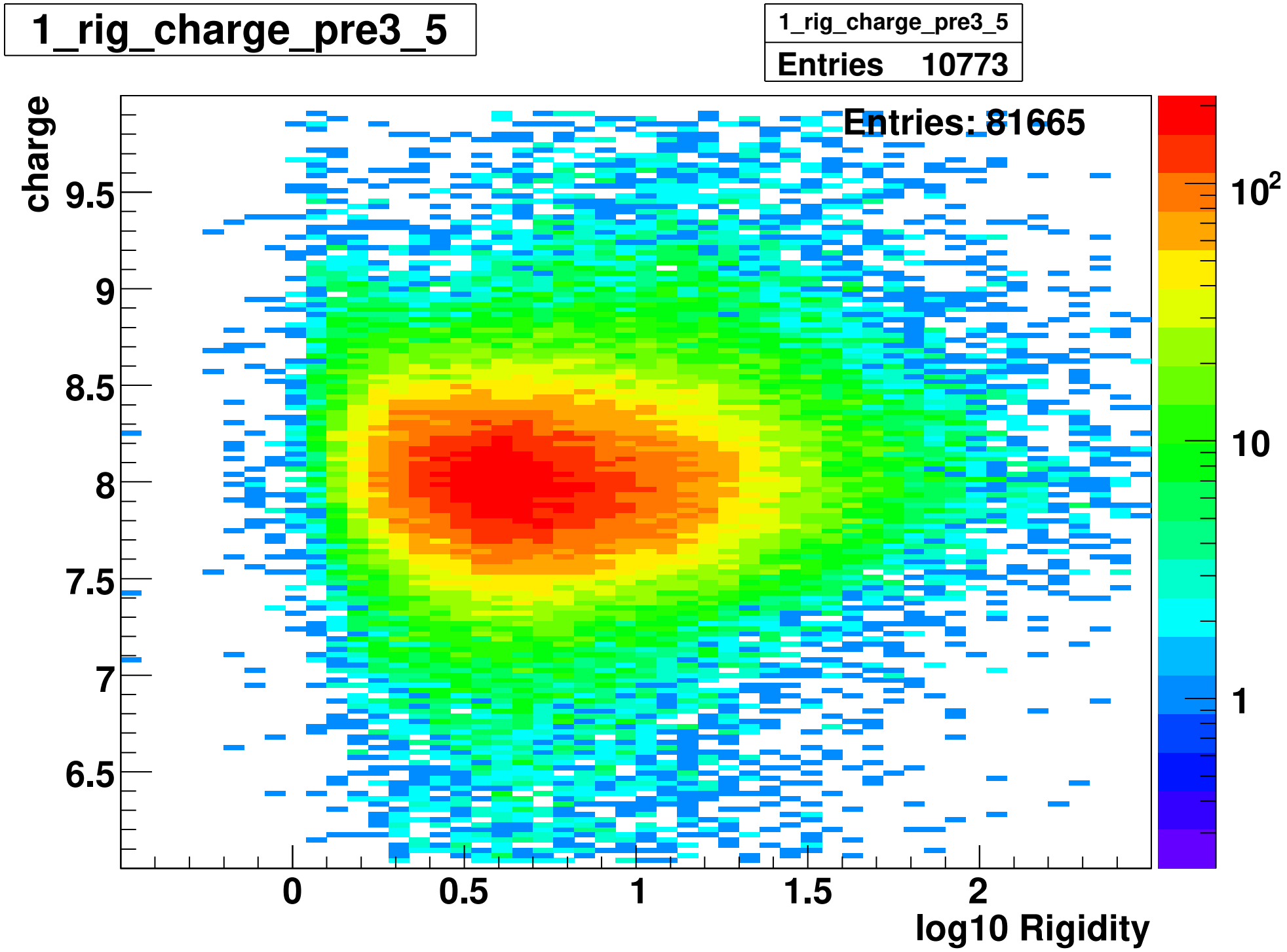

1_rig_charge_pre3_4
1_rig_charge_pre3_4_py_11
Entries 995
Mean 6.103
χ² / ndf 98.02 / 62
Constant 28.56± 1.37
Mean 6.049± 0.012
Sigma 0.3028 ± 0.0103
charge

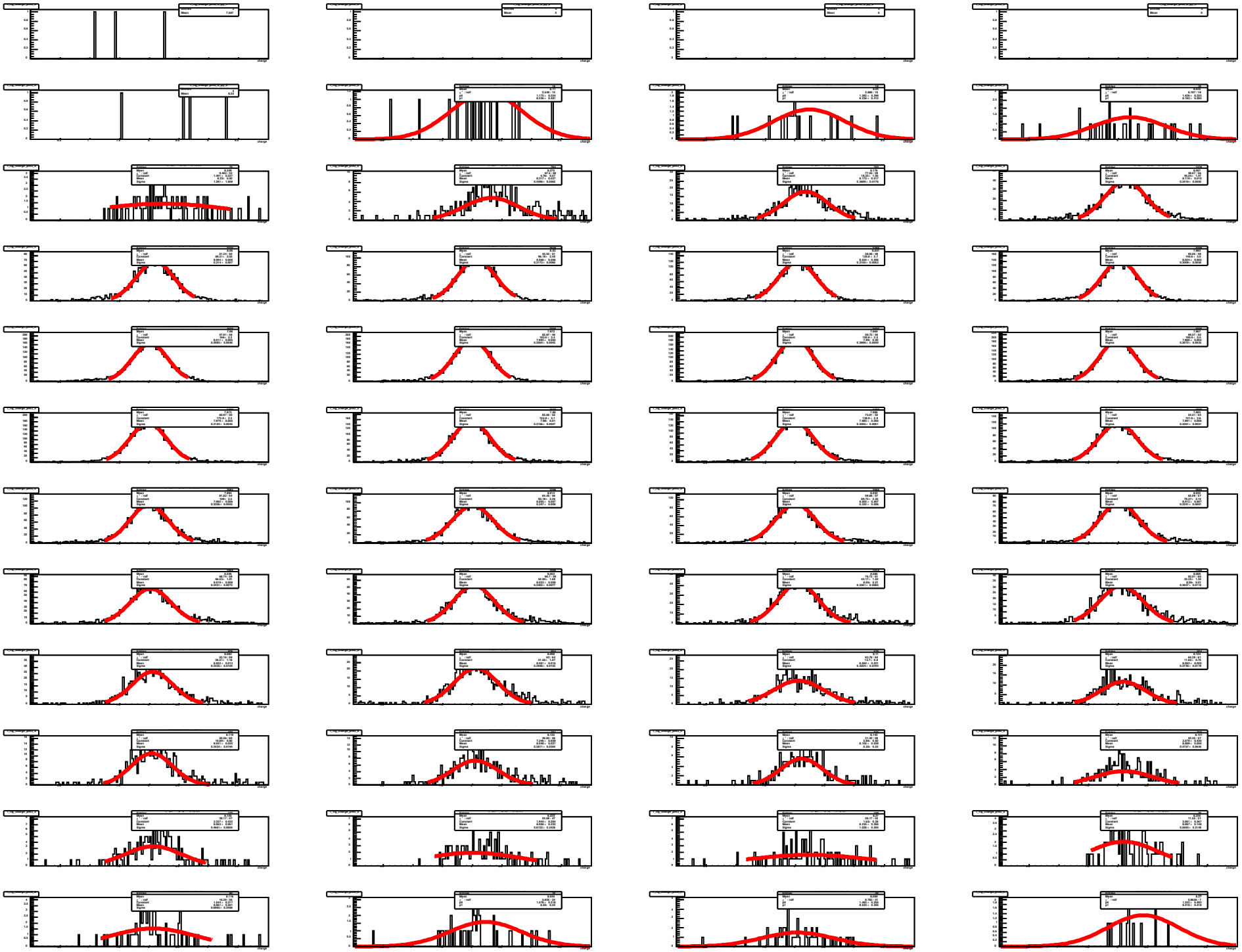
1_rig_charge_pre3_4 Carbon



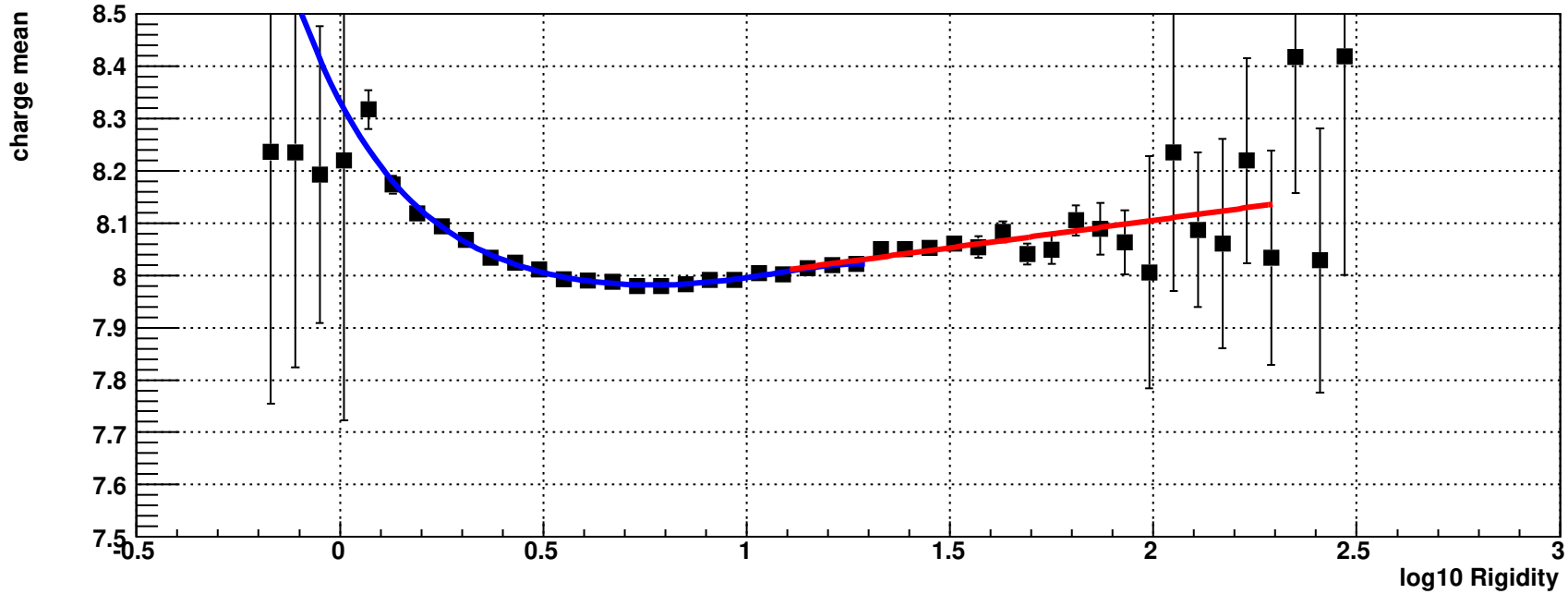
1_rig_charge_pre3_4 Carbon



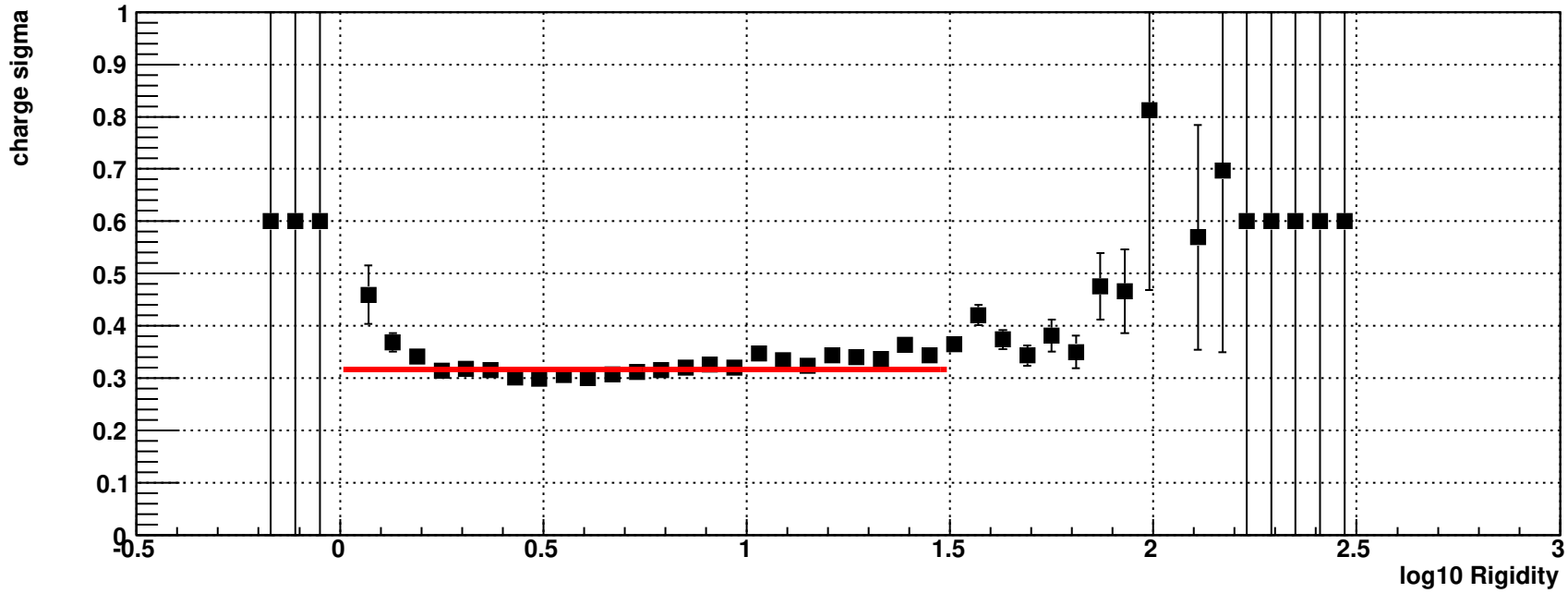

1_rig_charge_pre3_5
1_rig_charge_pre3_5
Entries 10773
Entries: 81665
charge
9.5
9
8.5
8
7.5
7
6.5
0
0.5
1
1.5
2
log10 Rigidity
10^2
10
1



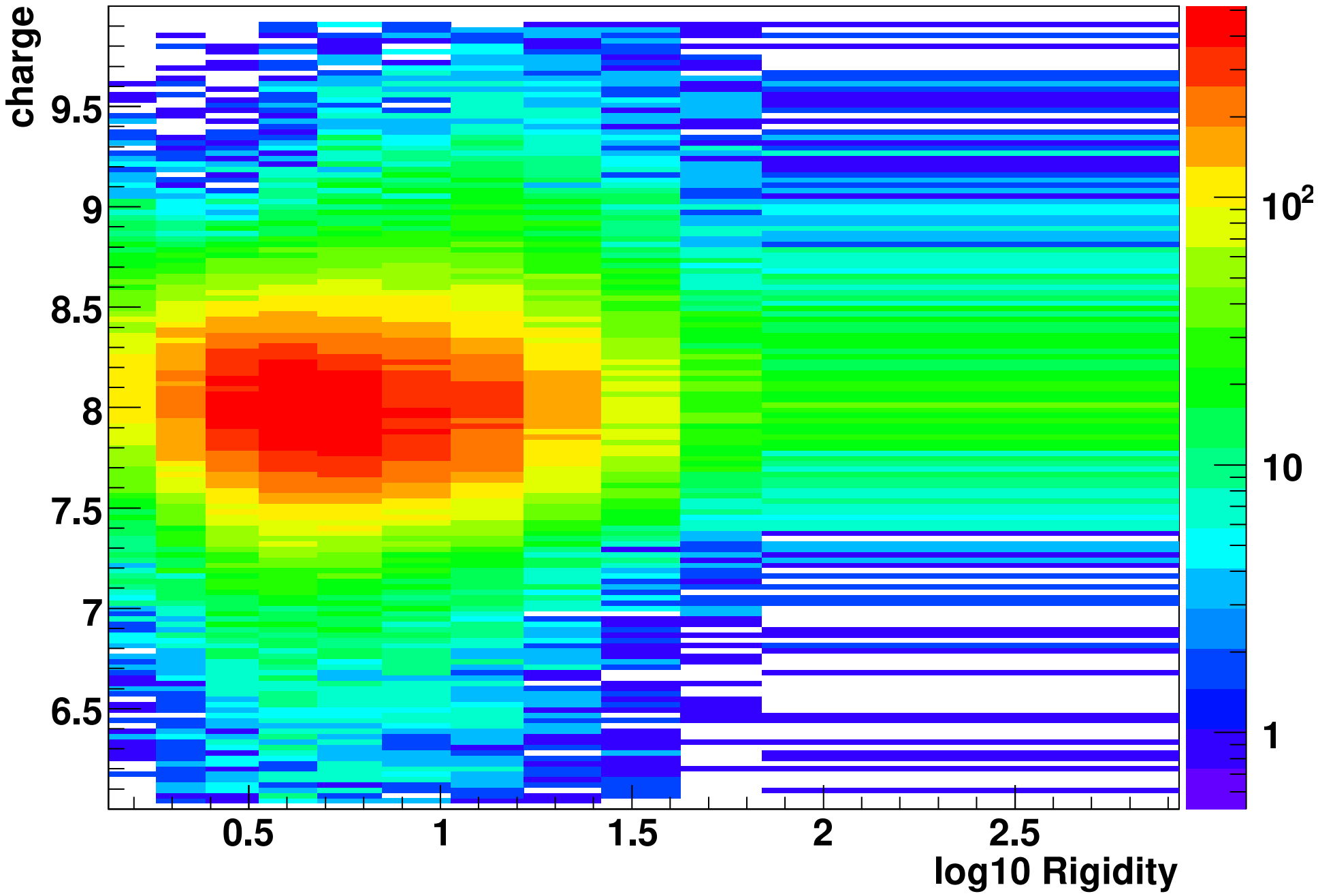
1_rig_charge_pre3_5_py_50

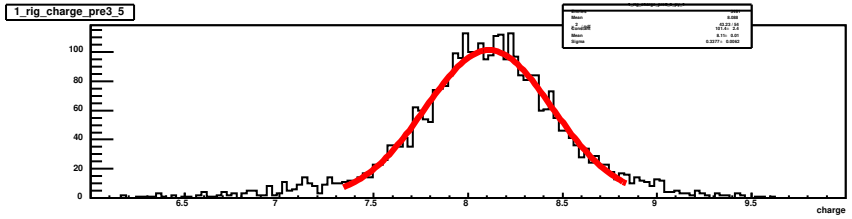


1_rig_charge_pre3_5_py_50



1_rig_charge_pre3_5

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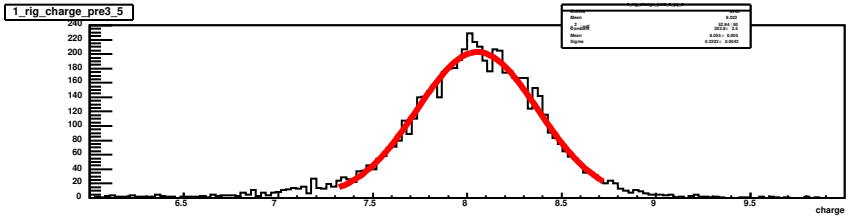
charge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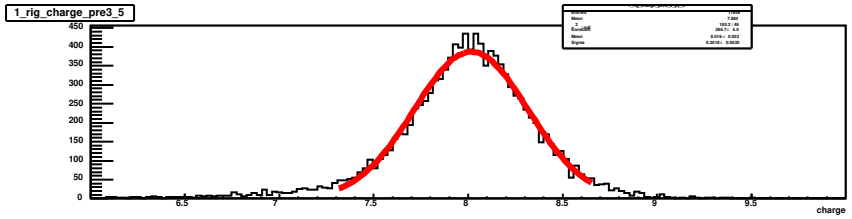
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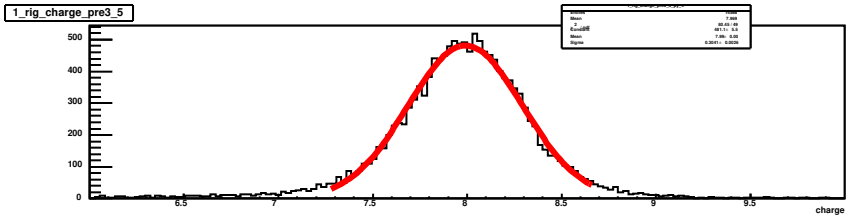
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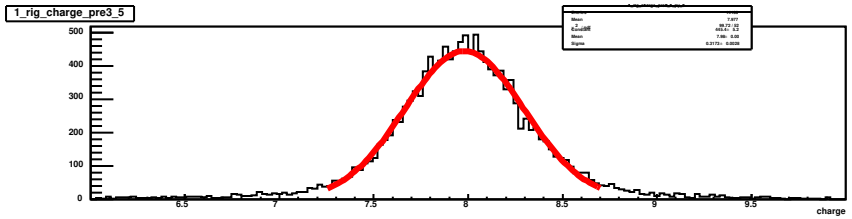
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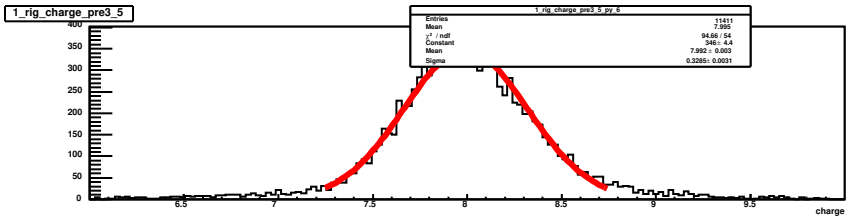
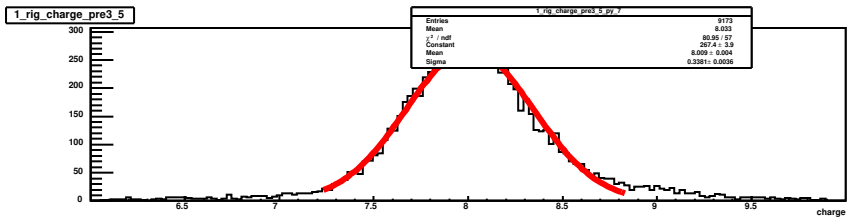
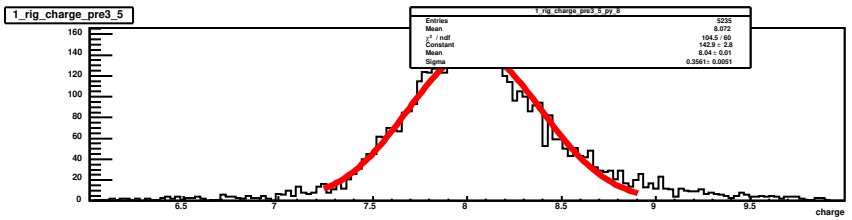
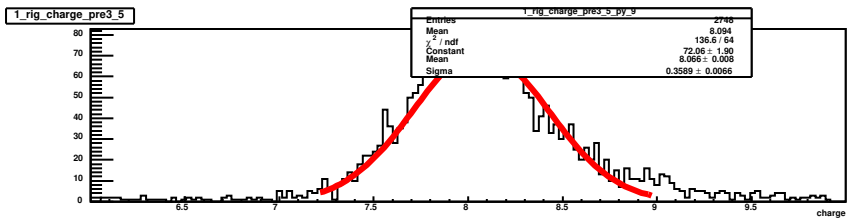
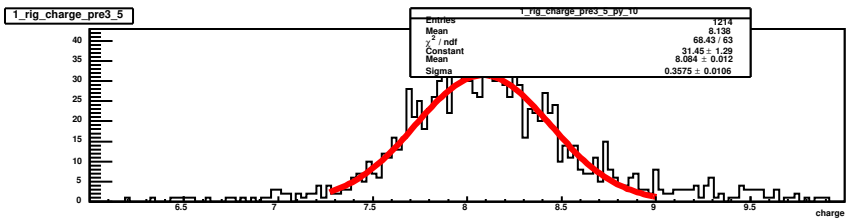
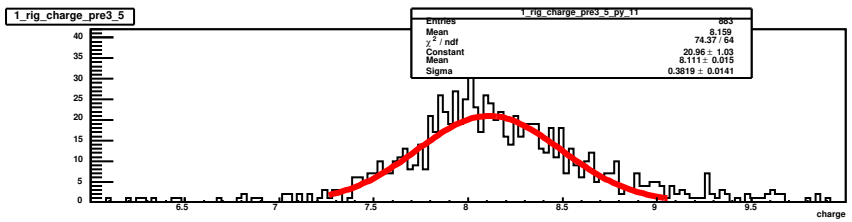

1_rig_charge_pre3_5
1_rig_charge_pre3_5_py_6
Entries 11411
Mean 7.995
χ² / ndf 94.66 / 54
Constant 346 ± 4.4
Mean 7.992 ± 0.003
Sigma 0.3285 ± 0.0031
charge


1_rig_charge_pre3_5
1_rig_charge_pre3_5_py_7
Entries 9173
Mean 8.033
χ² / ndf 80.85 / 57
Constant 267.4 ± 3.9
Mean 8.009 ± 0.004
Sigma 0.3381 ± 0.0036
charge

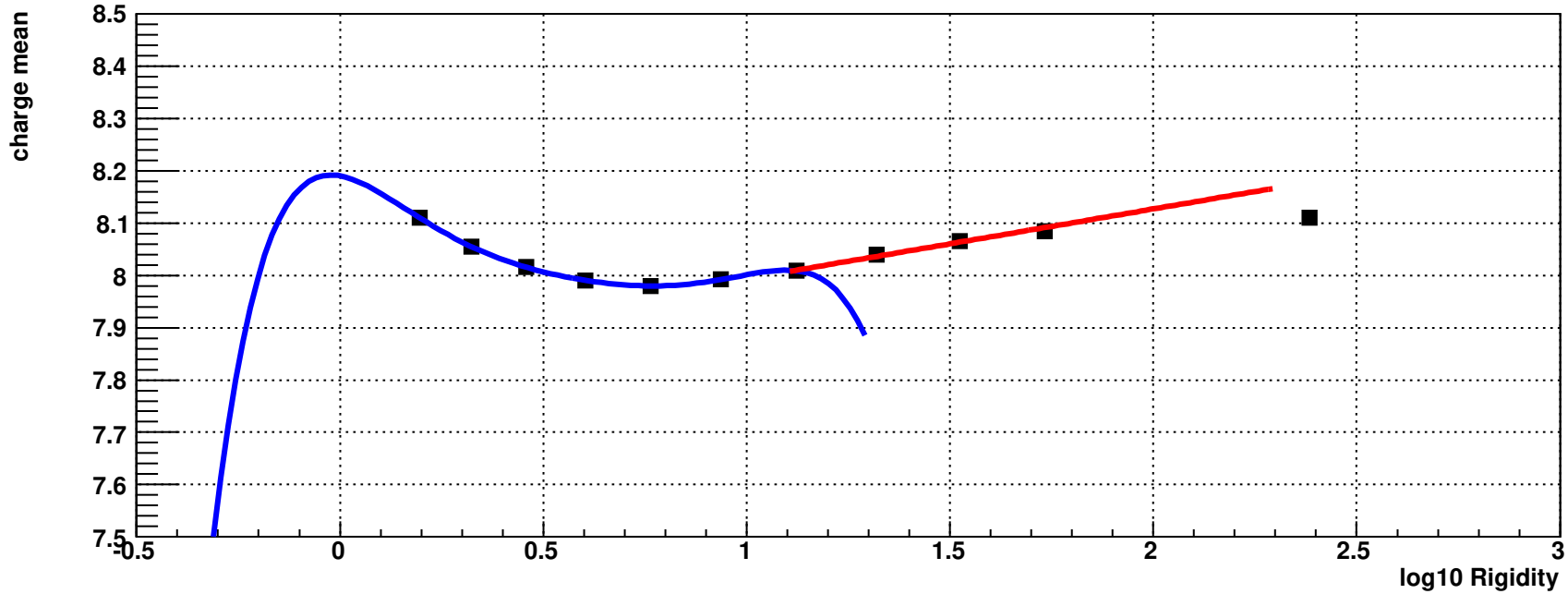
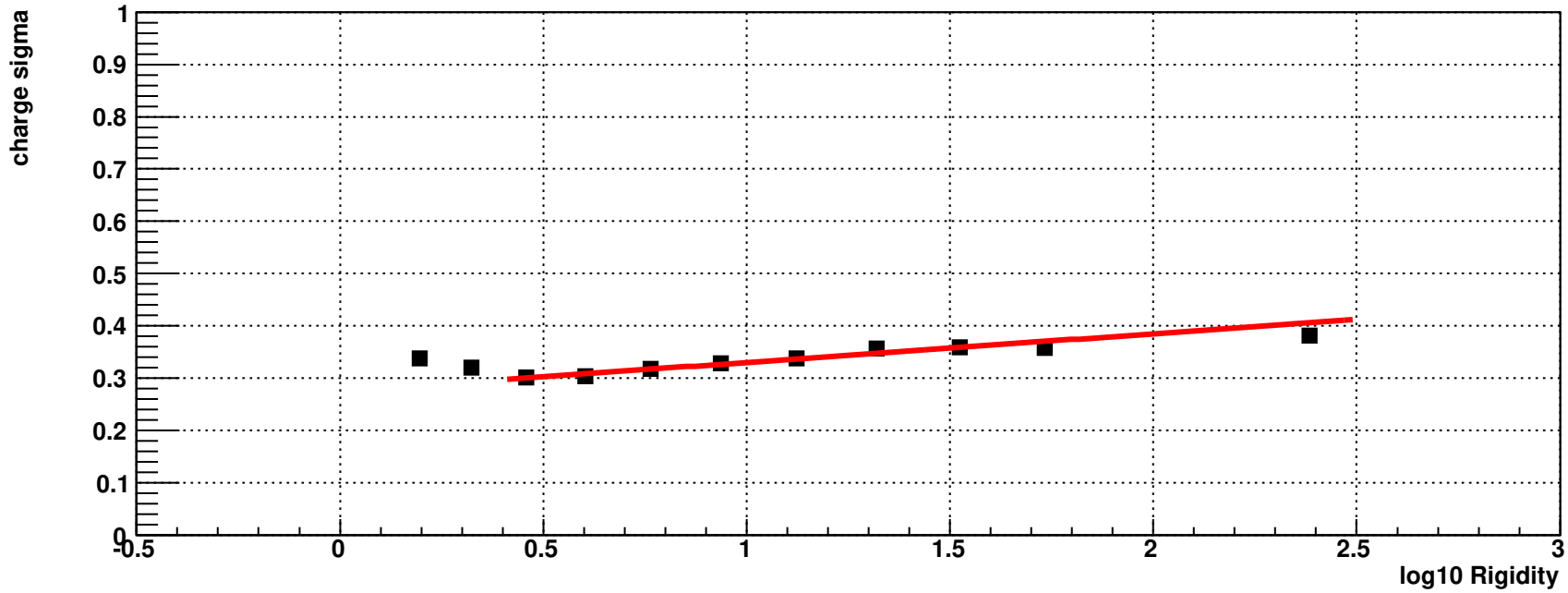

1_rig_charge_pre3_5
1_rig_charge_pre3_5_py_8
Entries 5235
Mean 8.072
χ² / ndf 104.5 / 69
Constant 142.9 ± 2.8
Mean 8.04 ± 0.01
Sigma 0.3561 ± 0.0051
charge


1_rig_charge_pre3_5
1_rig_charge_pre3_5_py_9
Entries 2746
Mean 8.094
χ² / ndf 136.6 / 64
Constant 72.06 ± 1.90
Mean 8.066 ± 0.008
Sigma 0.3589 ± 0.0066
charge


1_rig_charge_pre3_5
1_rig_charge_pre3_5_py_10
Entries 1214
Mean 8.139
χ² / ndf 68.43 / 63
Constant 31.45 ± 1.29
Mean 8.084 ± 0.012
Sigma 0.3575 ± 0.0106
charge


1_rig_charge_pre3_5
1_rig_charge_pre3_5_py_11
Entries 883
Mean 8.159
χ² / ndf 74.37 / 64
Constant 20.96 ± 1.03
Mean 8.111 ± 0.015
Sigma 0.3819 ± 0.0141
charge

1_rig_charge_pre3_5_py_11



1_rig_charge_pre3_5_py_11