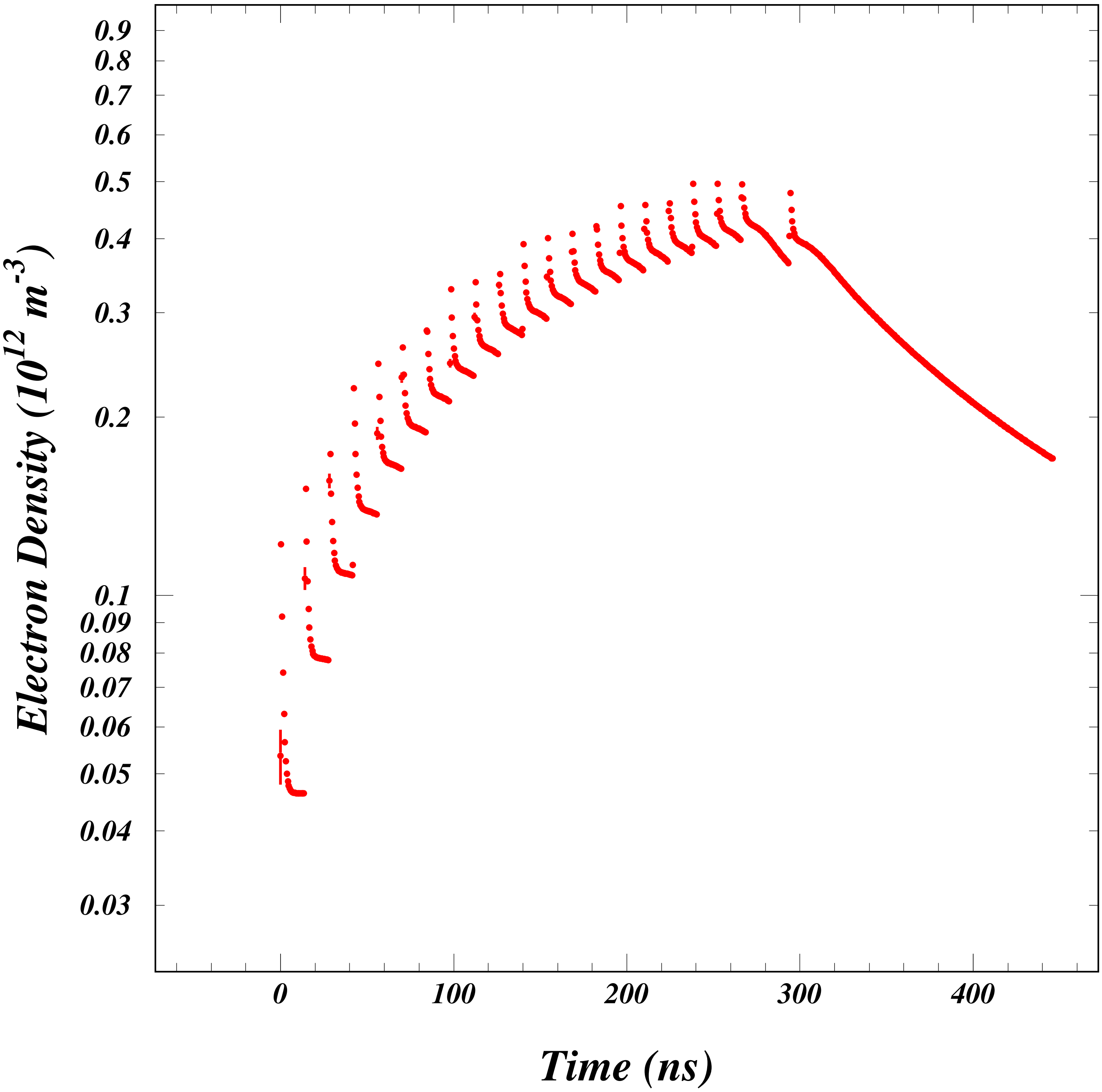
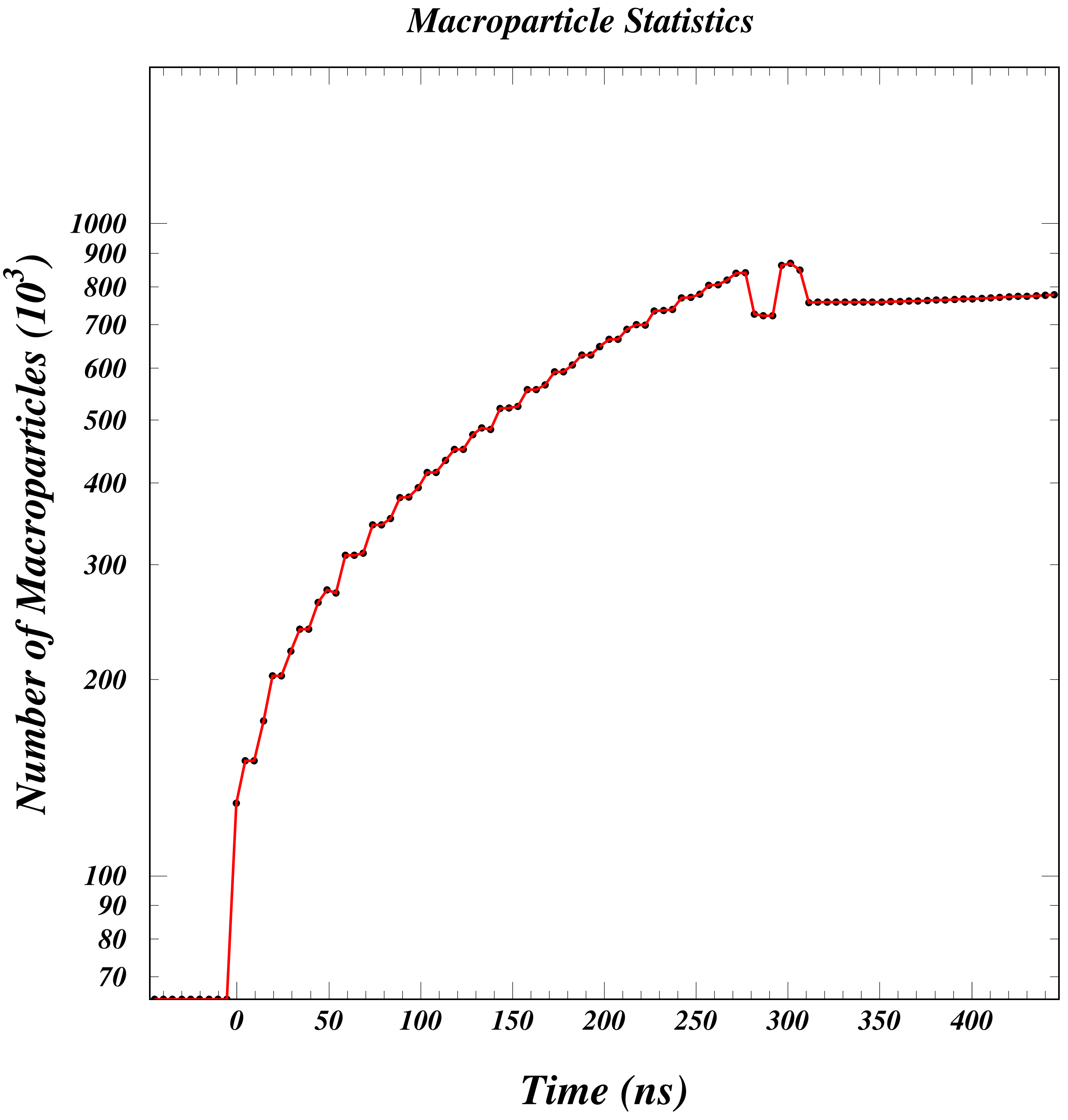
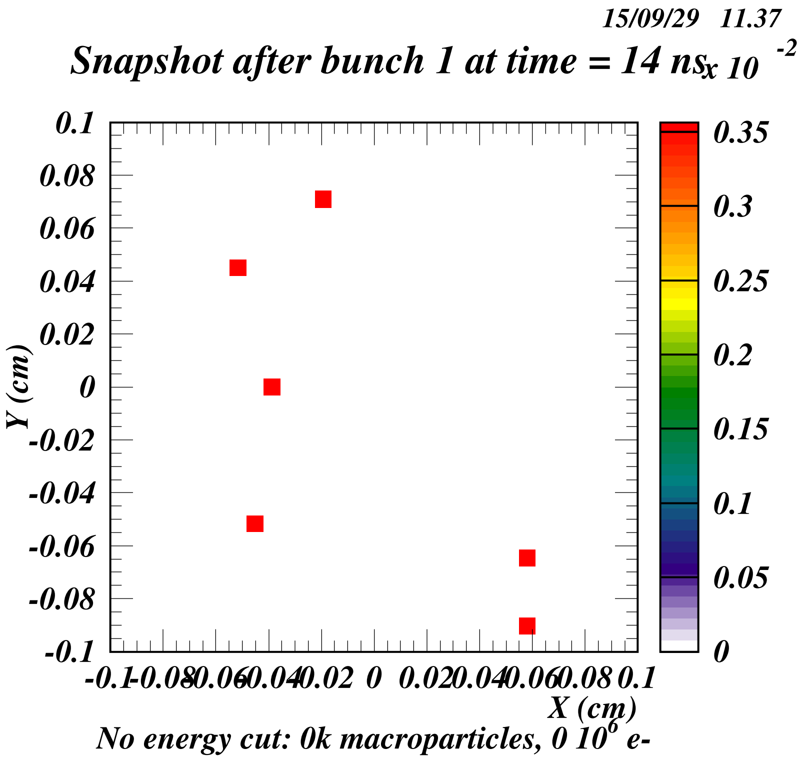
2.1 GeV 800 kG Dipole: Beampipe-averaged Cloud Density (10^{12} m^{-3})



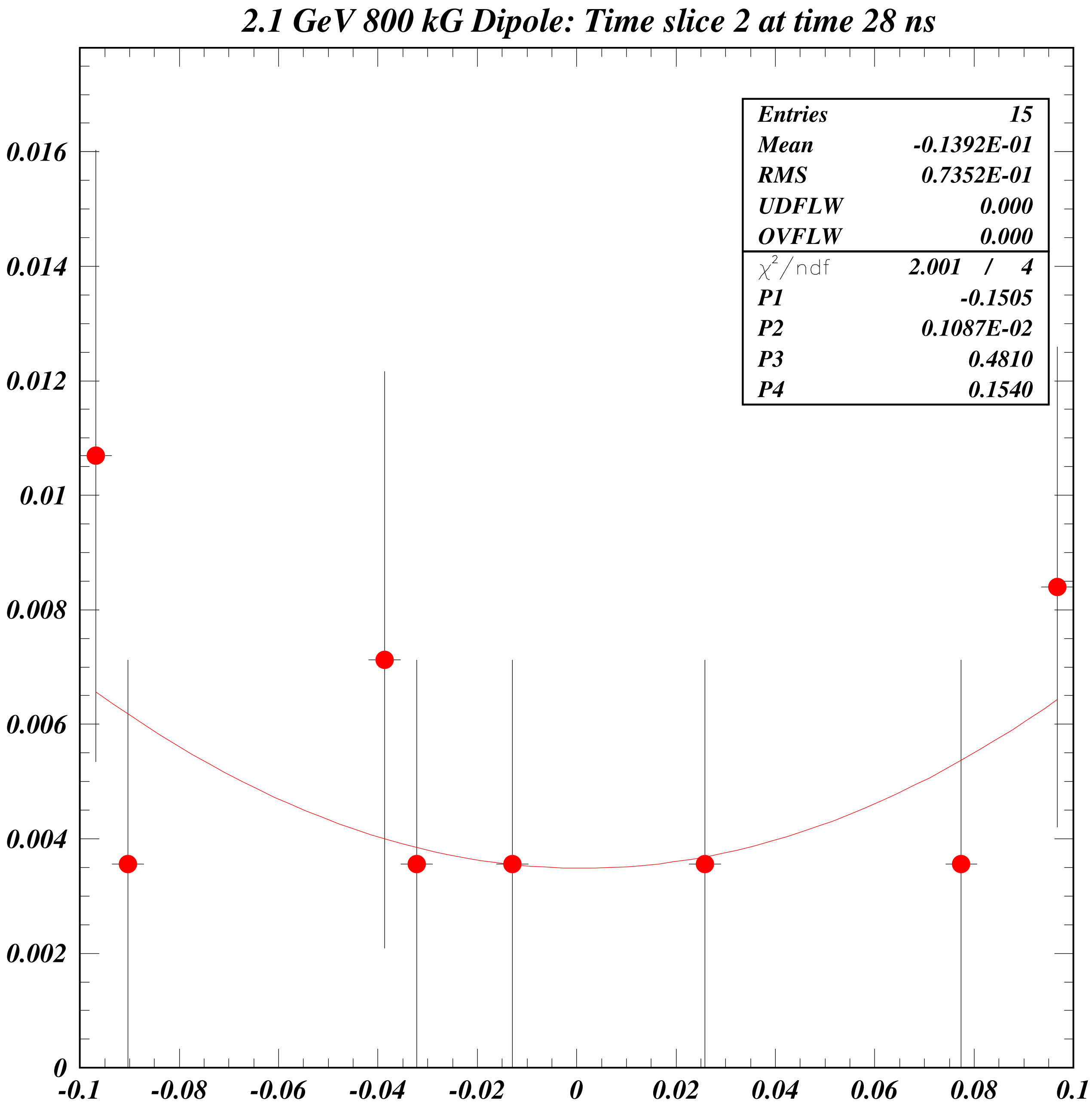


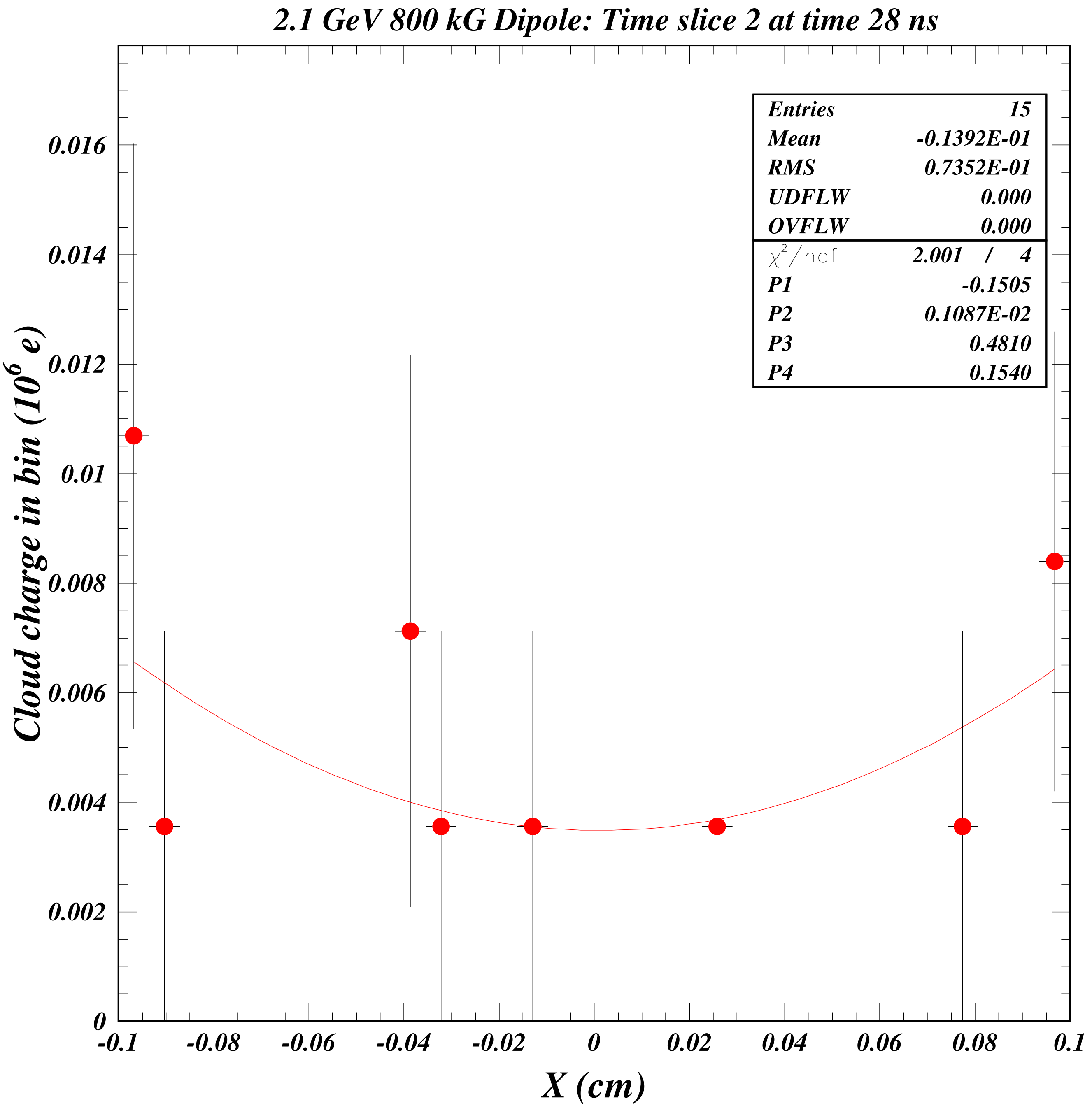
Macroparticle Statistics
Number of Macroparticles (10^3)
1000
900
800
700
600
500
400
300
200
100
90
80
70
0
50
100
150
200
250
300
350
400
Time (ns)

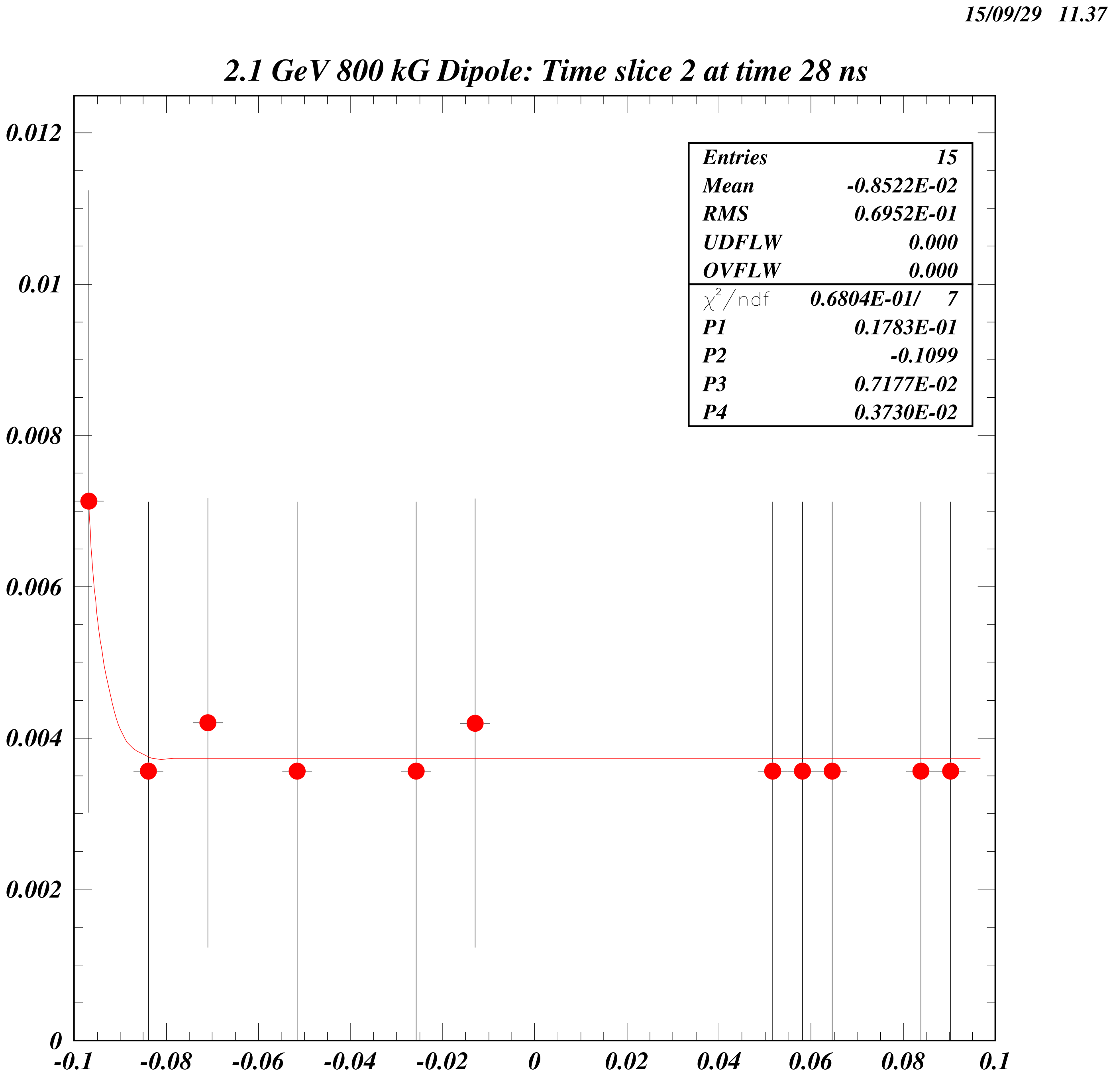


15/09/29 11.37
Snapshot after bunch 1 at time = 14 ns
x 10^-2
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
No energy cut: 0k macroparticles, 0 10^6 e-

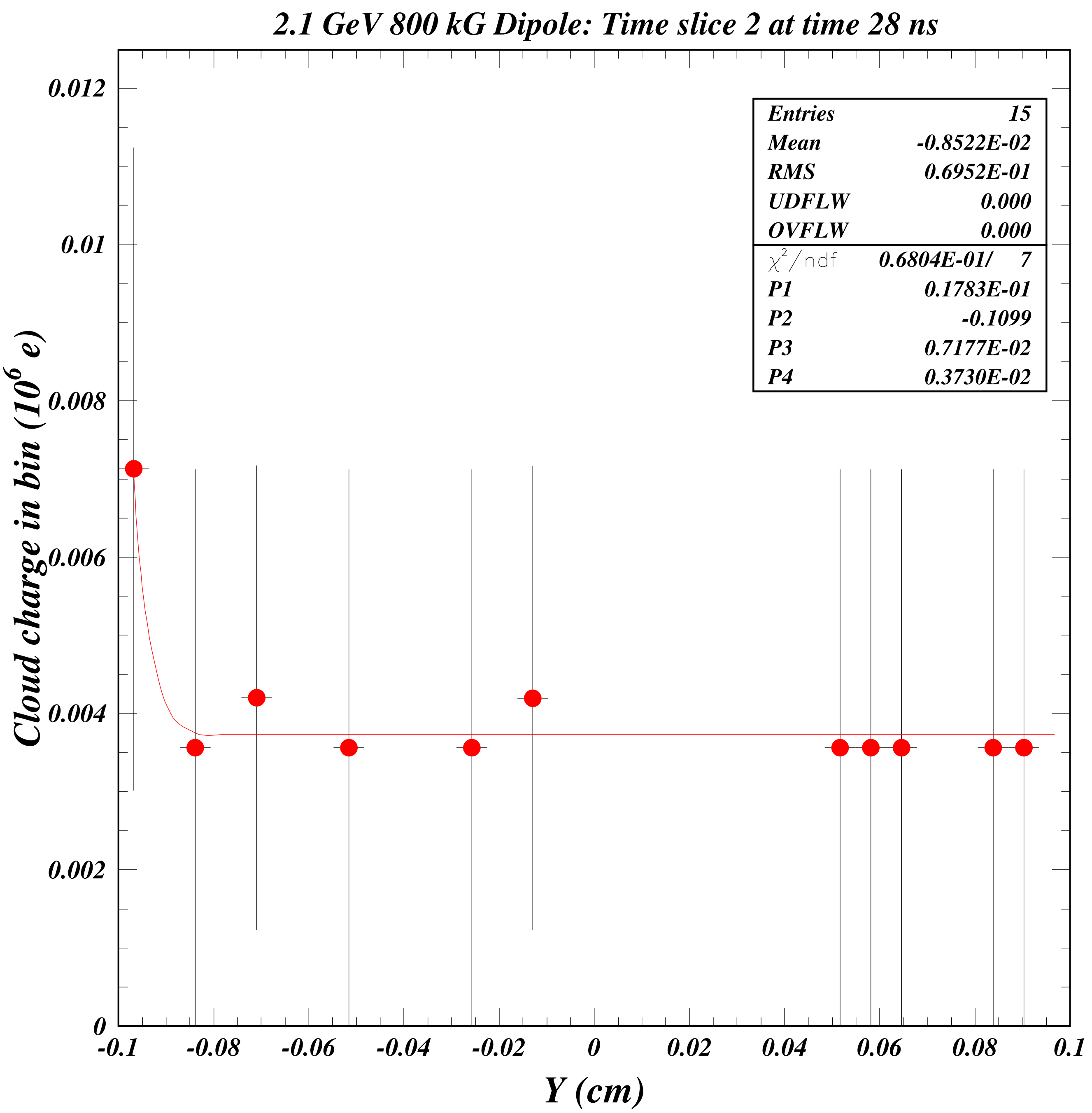
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 2 at time 28 ns
Entries 15
Mean -0.1392E-01
RMS 0.7352E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 2.001 / 4
P1 -0.1505
P2 0.1087E-02
P3 0.4810
P4 0.1540
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

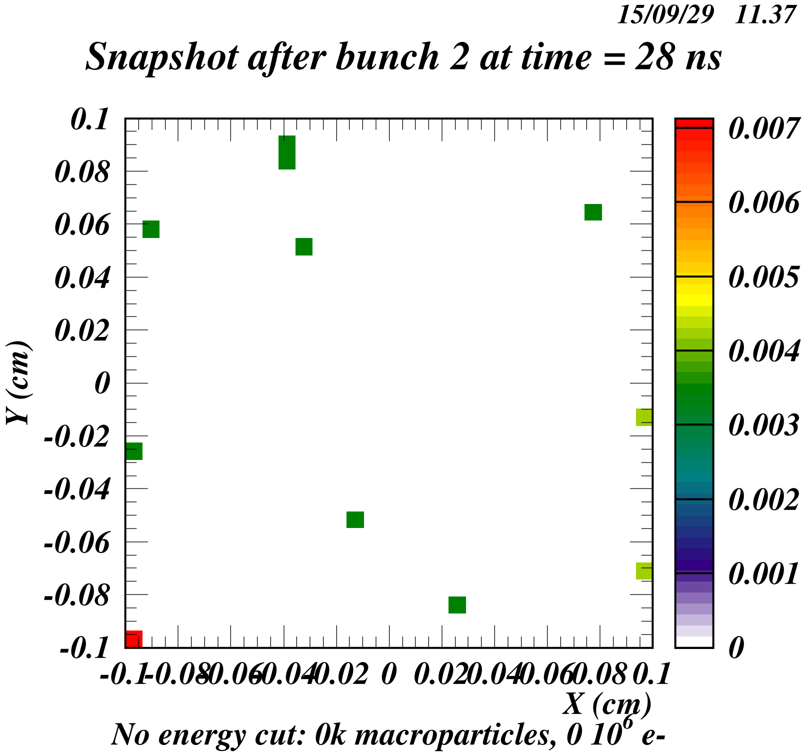

2.1 GeV 800 kG Dipole: Time slice 2 at time 28 ns
Entries 15
Mean -0.1392E-01
RMS 0.7352E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 2.001 / 4
P1 -0.1505
P2 0.1087E-02
P3 0.4810
P4 0.1540
Cloud charge in bin (10⁶ e)
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
X (cm)


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 2 at time 28 ns
Entries 15
Mean -0.8522E-02
RMS 0.6952E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 0.6804E-01/ 7
P1 0.1783E-01
P2 -0.1099
P3 0.7177E-02
P4 0.3730E-02
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

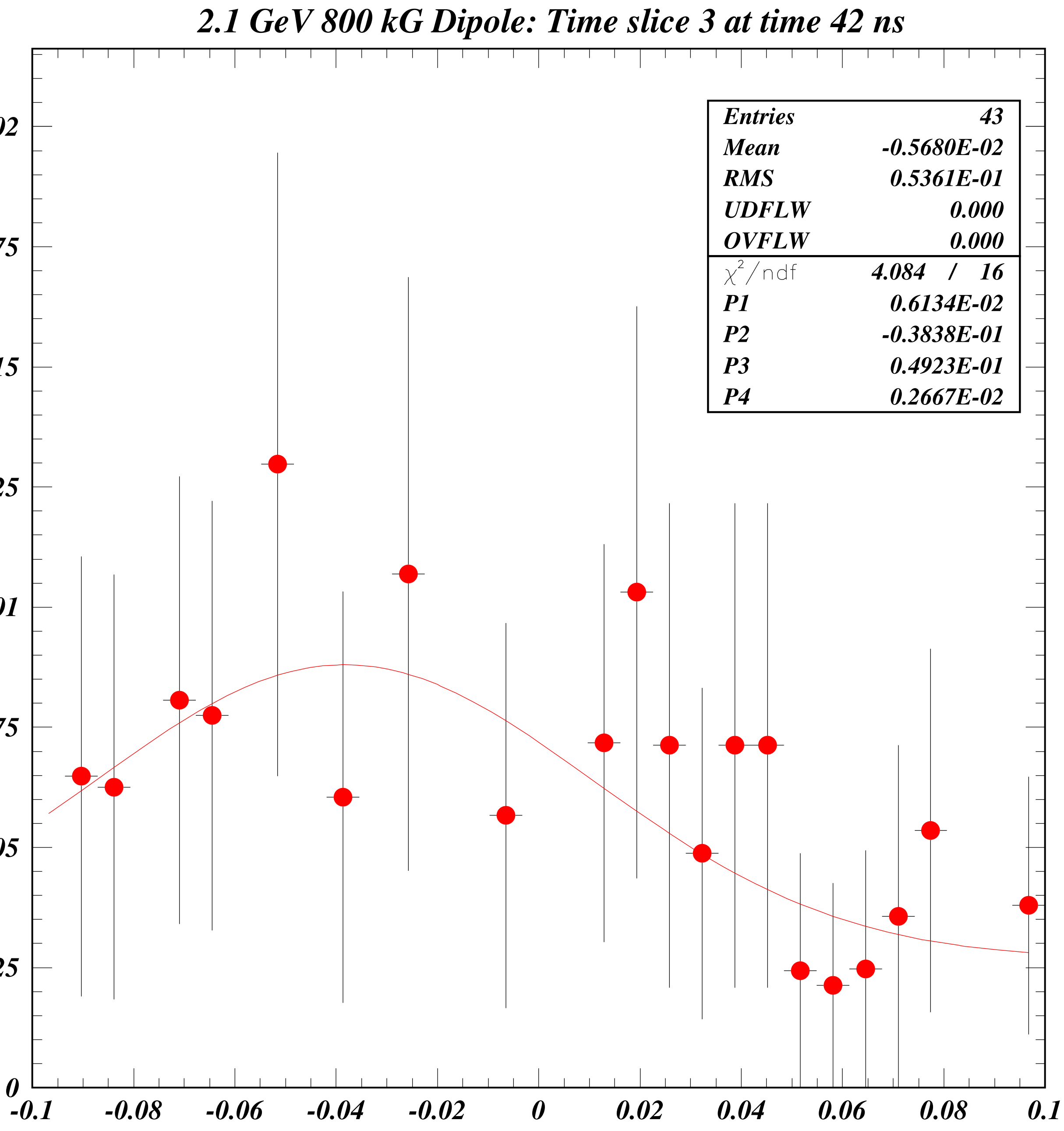
15/09/29   11.37



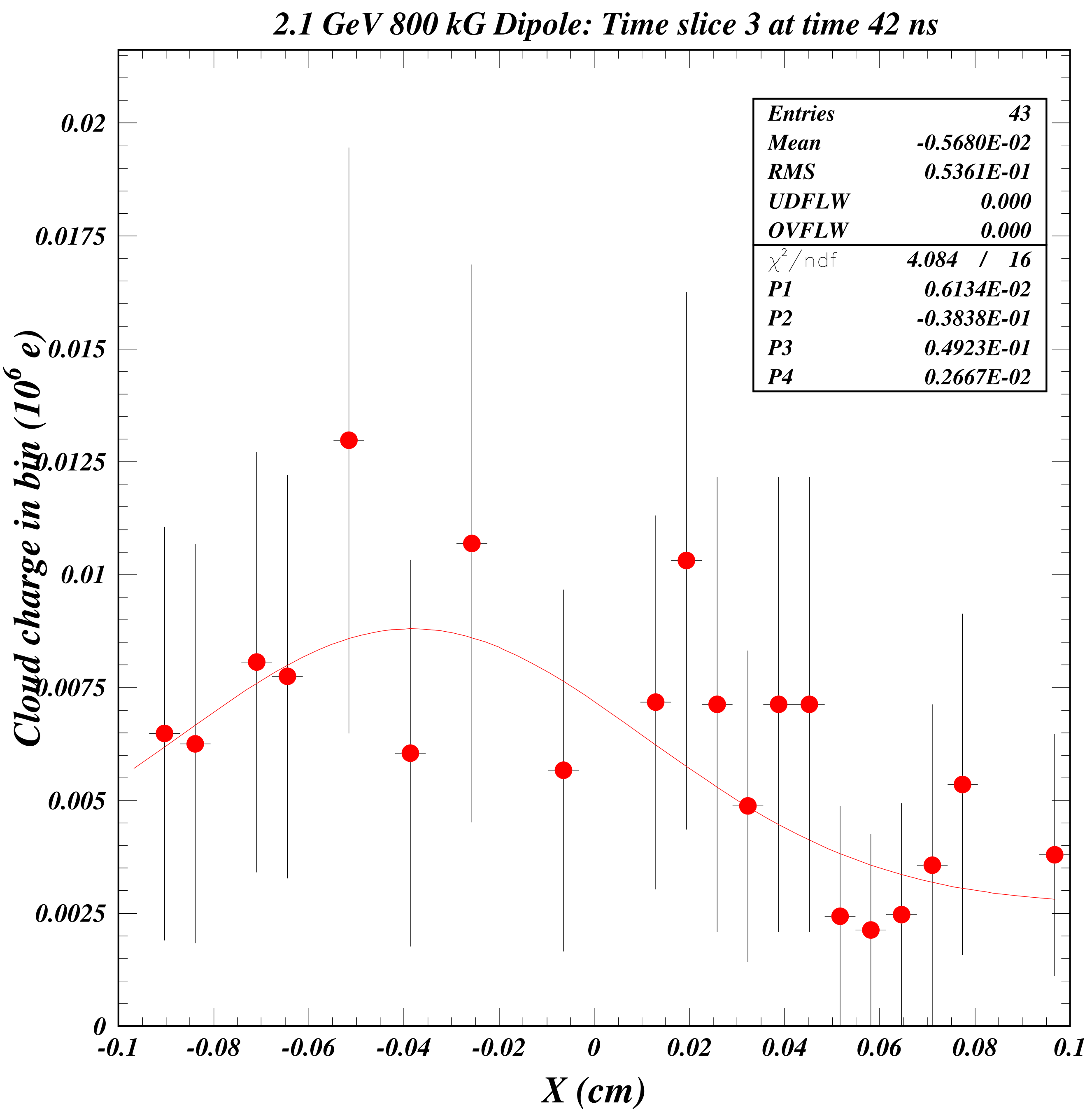
2.1 GeV 800 kG Dipole: Time slice 2 at time 28 ns
Entries 15
Mean -0.8522E-02
RMS 0.6952E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 0.6804E-01/ 7
P1 0.1783E-01
P2 -0.1099
P3 0.7177E-02
P4 0.3730E-02
Cloud charge in bin (10⁶ e)
Y (cm)


15/09/29 11.37
Snapshot after bunch 2 at time = 28 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.007
0.006
0.005
0.004
0.003
0.002
0.001
No energy cut: 0k macroparticles, 0 10^6 e-

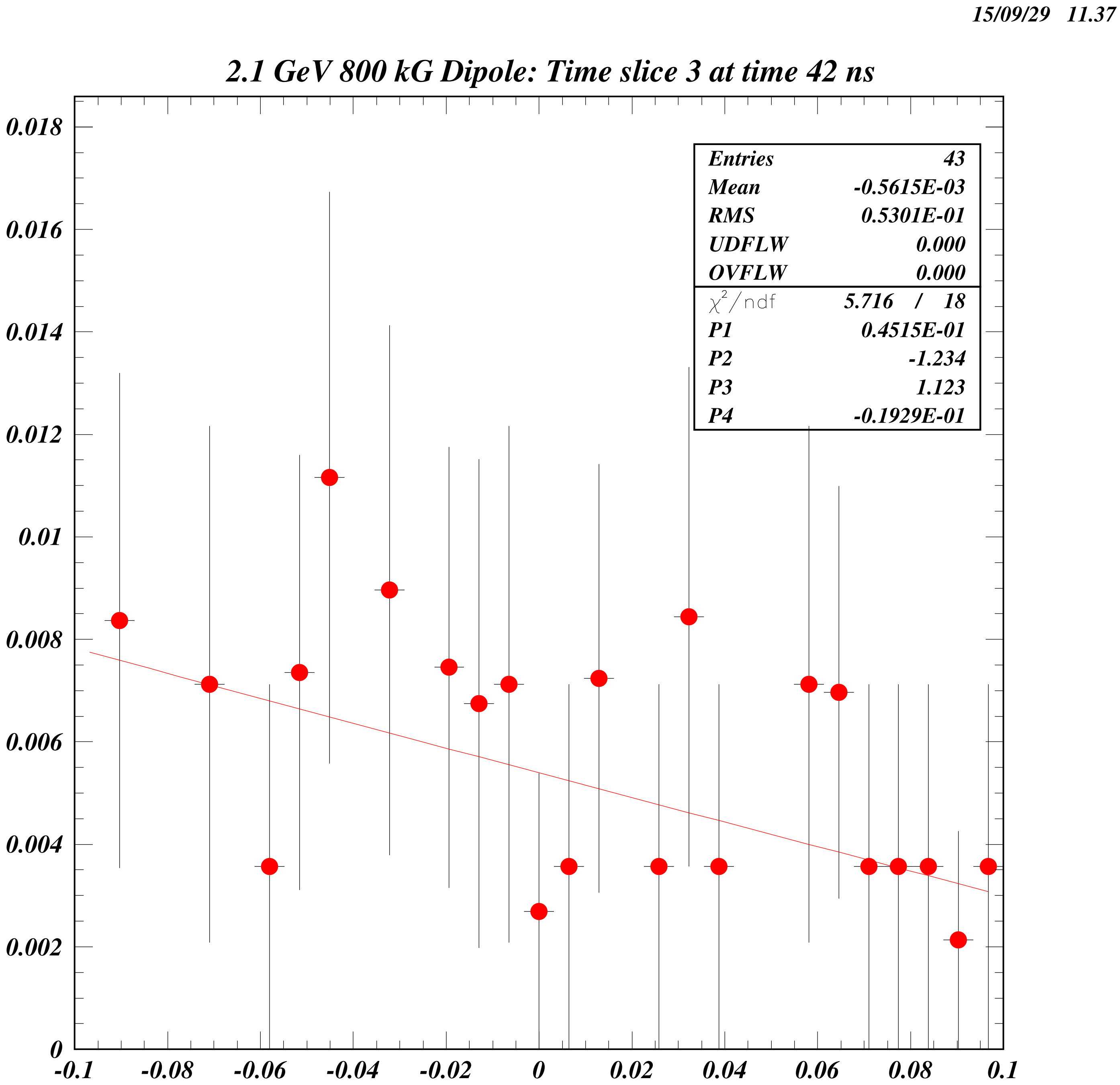
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 3 at time 42 ns
Entries 43
Mean -0.5680E-02
RMS 0.5361E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 4.084 / 16
P1 0.6134E-02
P2 -0.3838E-01
P3 0.4923E-01
P4 0.2667E-02
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

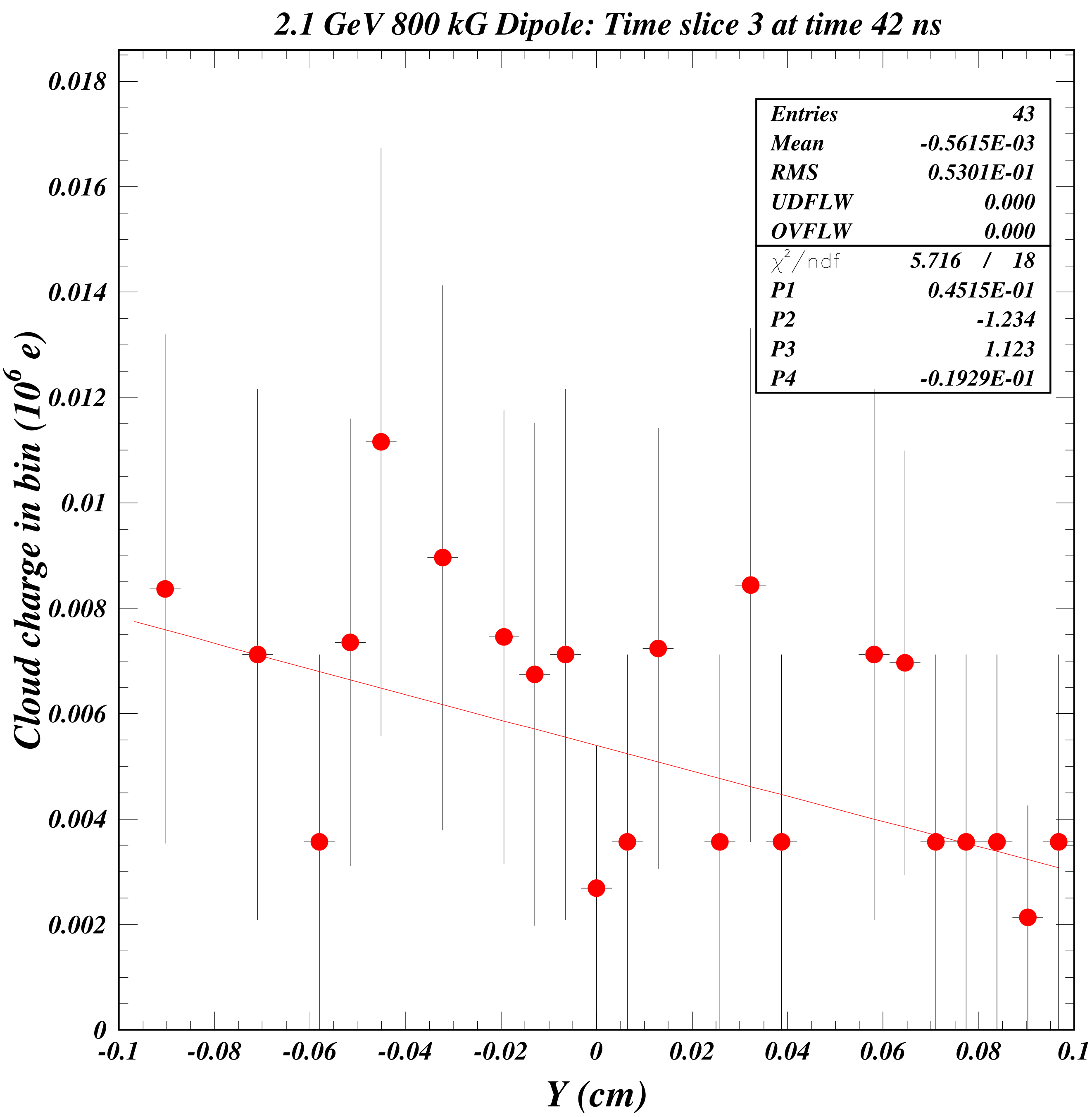
15/09/29 11.37

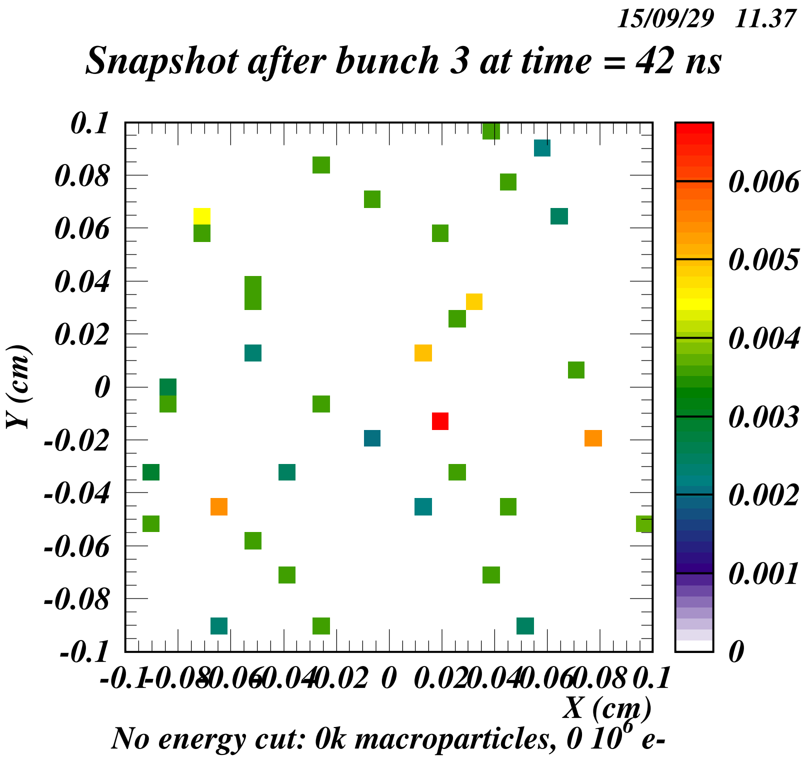


2.1 GeV 800 kG Dipole: Time slice 3 at time 42 ns
Entries 43
Mean -0.5680E-02
RMS 0.5361E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 4.084 / 16
P1 0.6134E-02
P2 -0.3838E-01
P3 0.4923E-01
P4 0.2667E-02
Cloud charge in bin (10⁶ e)
X (cm)
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

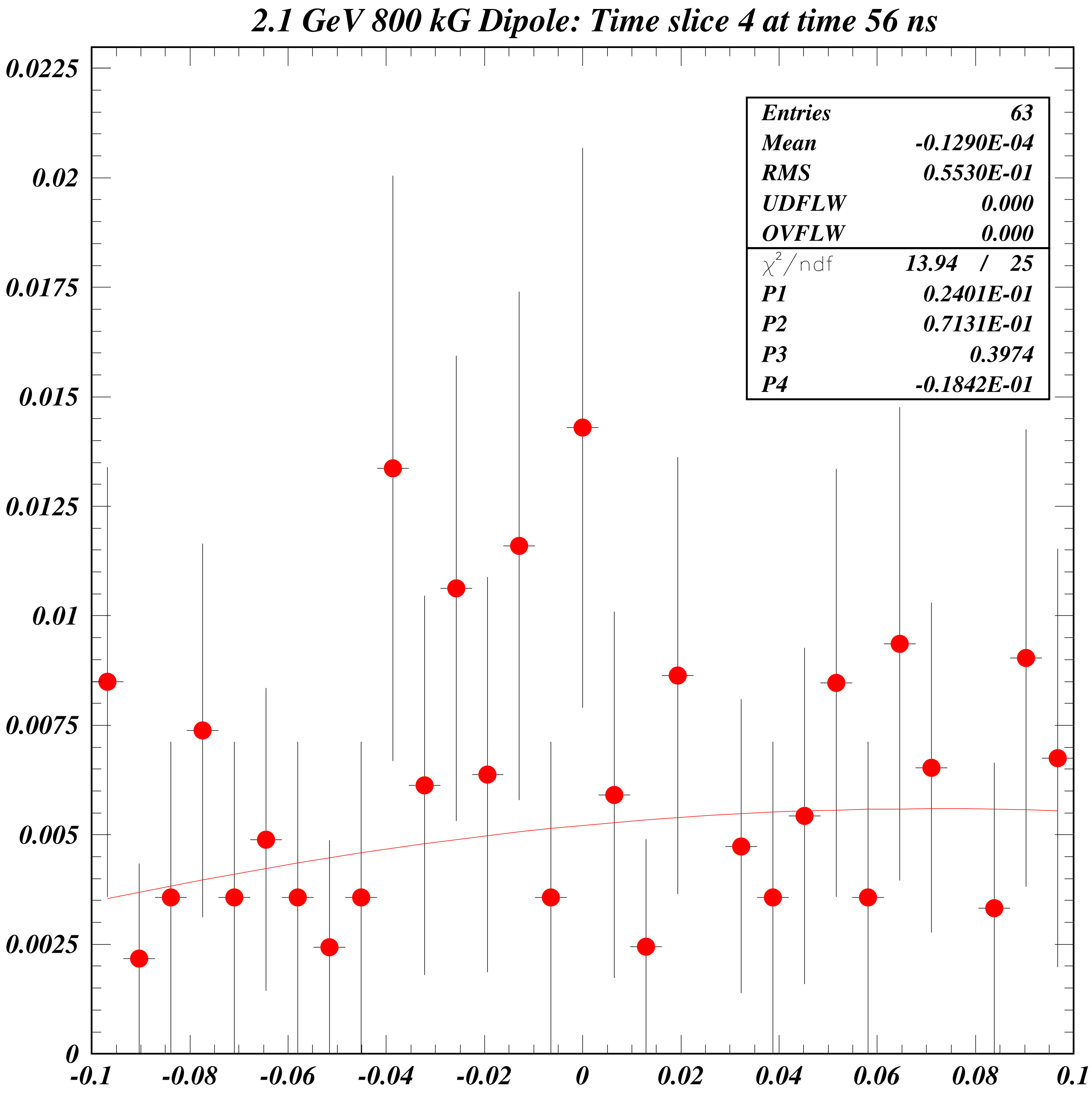

15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 3 at time 42 ns
Entries 43
Mean -0.5615E-03
RMS 0.5301E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 5.716 / 18
P1 0.4515E-01
P2 -1.234
P3 1.123
P4 -0.1929E-01
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

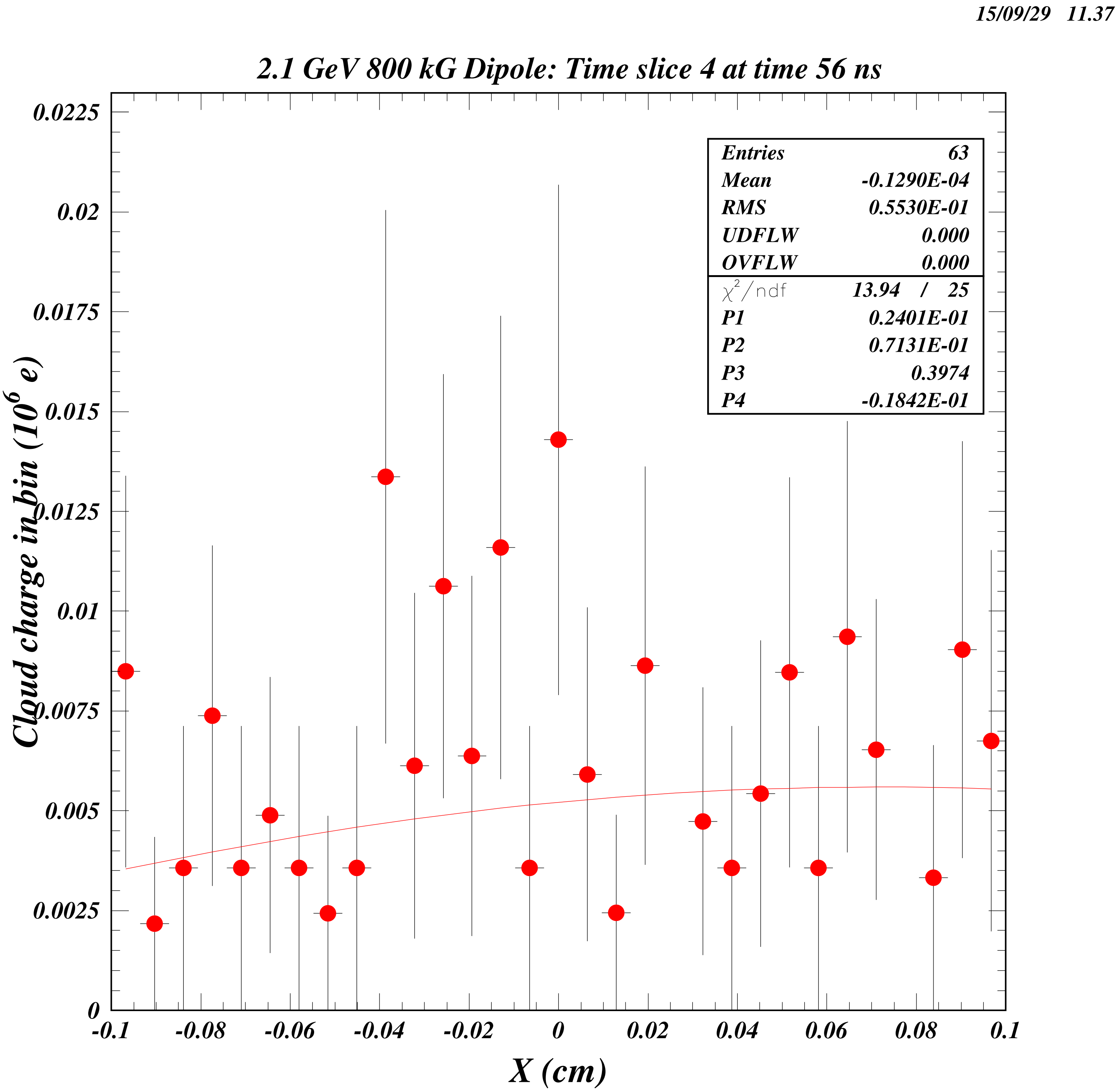
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 3 at time 42 ns
Entries 43
Mean -0.5615E-03
RMS 0.5301E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 5.716 / 18
P1 0.4515E-01
P2 -1.234
P3 1.123
P4 -0.1929E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
Snapshot after bunch 3 at time = 42 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.006
0.005
0.004
0.003
0.002
0.001
No energy cut: 0k macroparticles, 0 10^6 e-

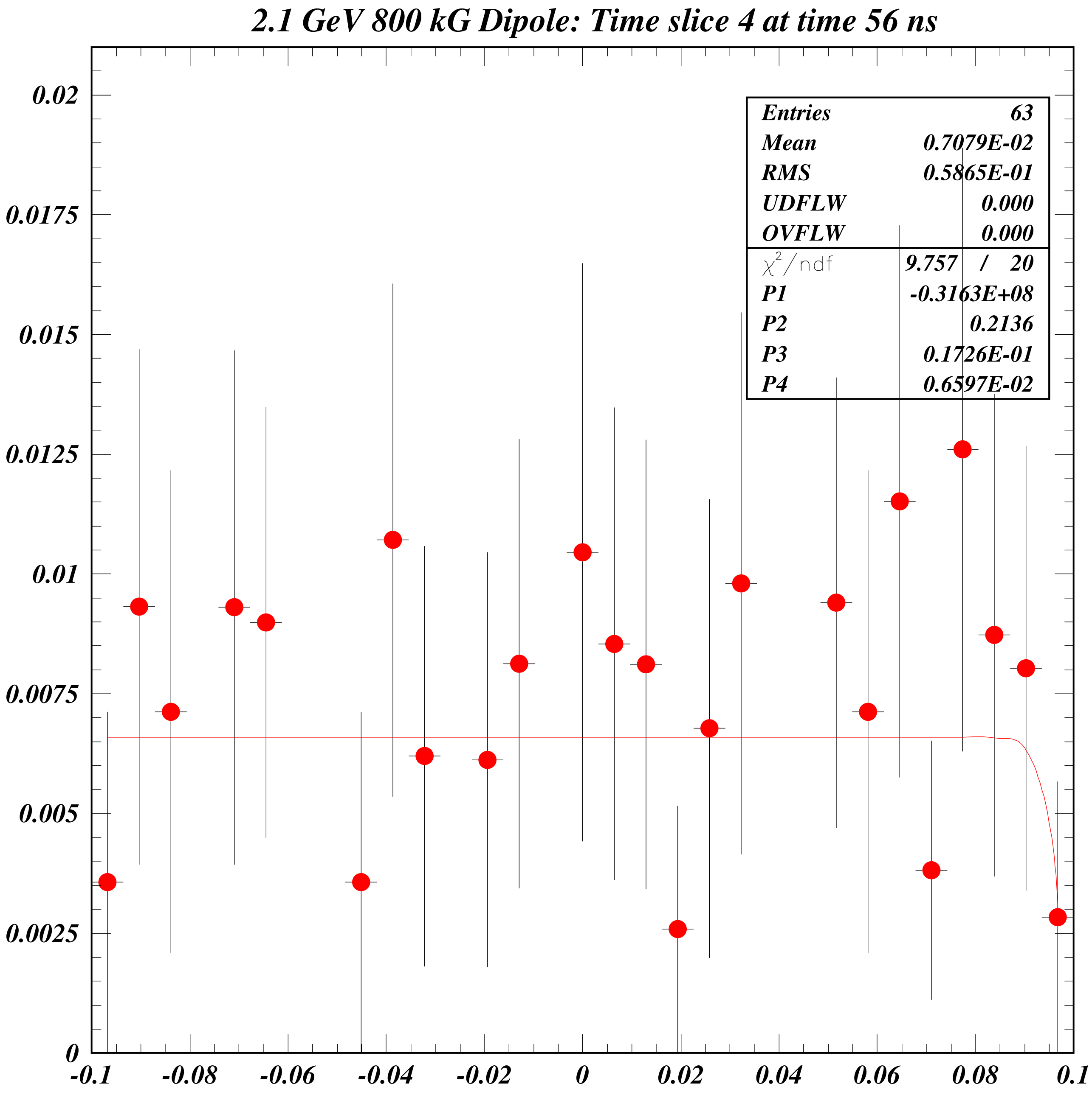
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 4 at time 56 ns
Entries 63
Mean -0.1290E-04
RMS 0.5530E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 13.94 / 25
P1 0.2401E-01
P2 0.7131E-01
P3 0.3974
P4 -0.1842E-01
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

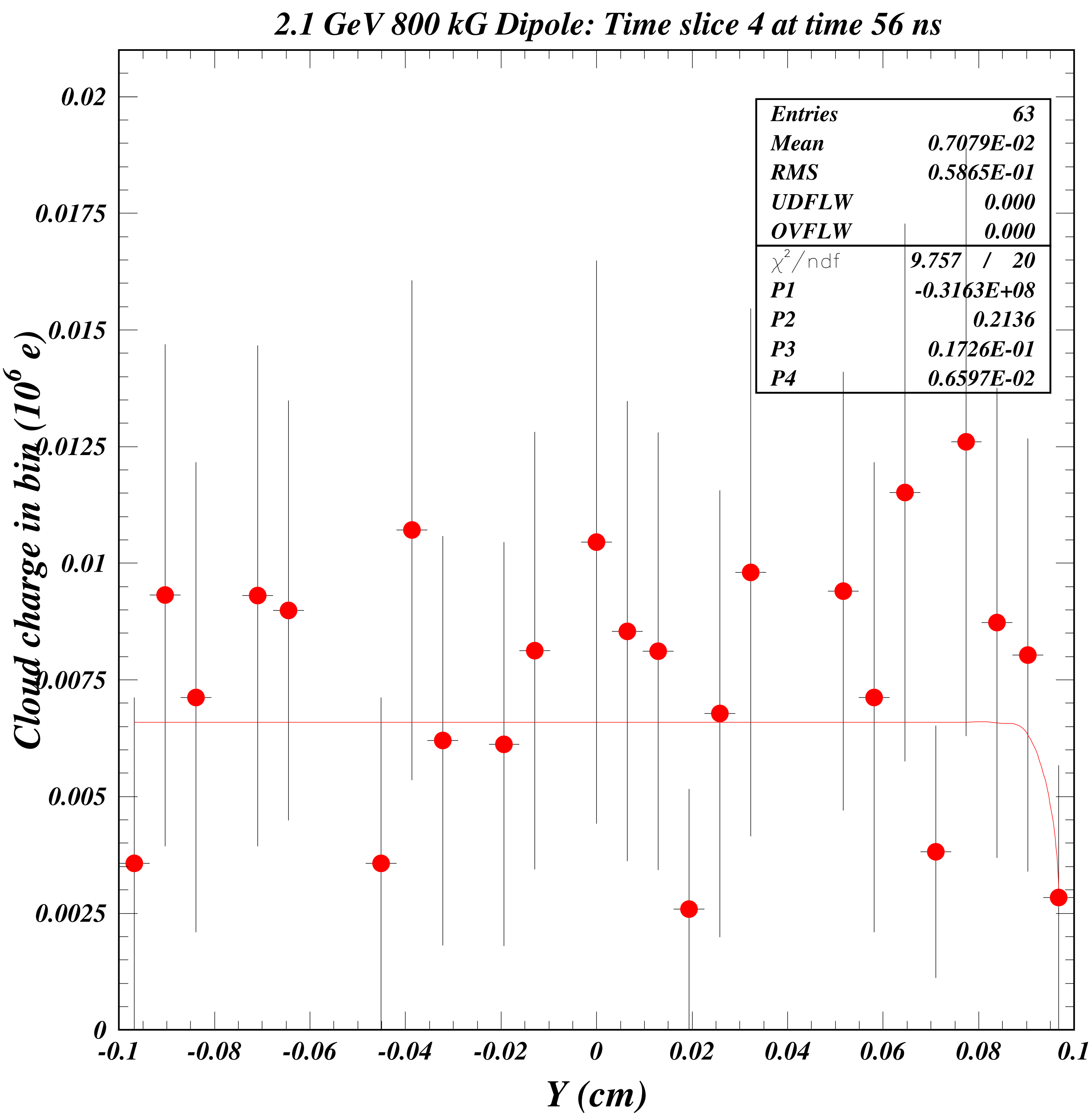


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 4 at time 56 ns
Entries 63
Mean -0.1290E-04
RMS 0.5530E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 13.94 / 25
P1 0.2401E-01
P2 0.7131E-01
P3 0.3974
P4 -0.1842E-01
Cloud charge in bin (10⁶ e)
X (cm)

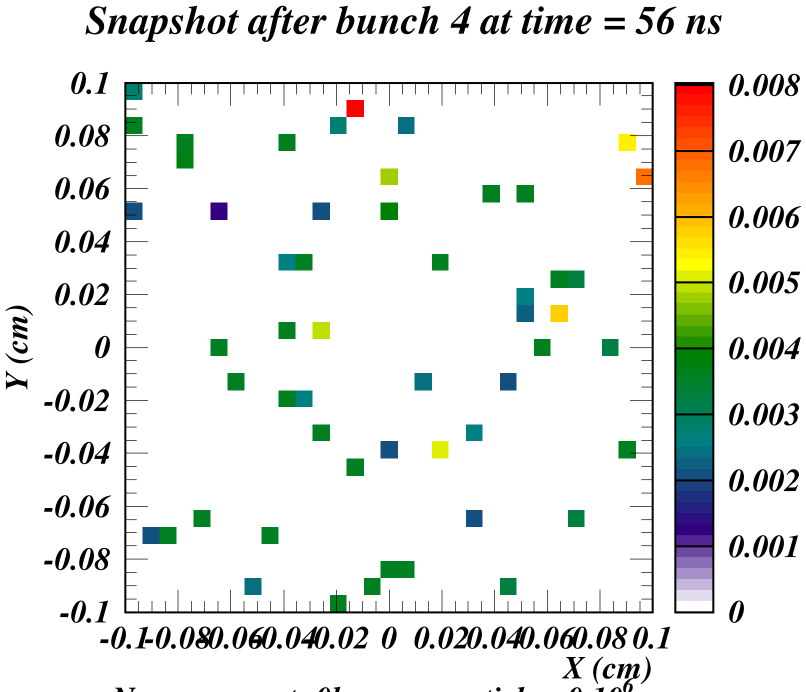
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 4 at time 56 ns
Entries 63
Mean 0.7079E-02
RMS 0.5865E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 9.757 / 20
P1 -0.3163E+08
P2 0.2136
P3 0.1726E-01
P4 0.6597E-02
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

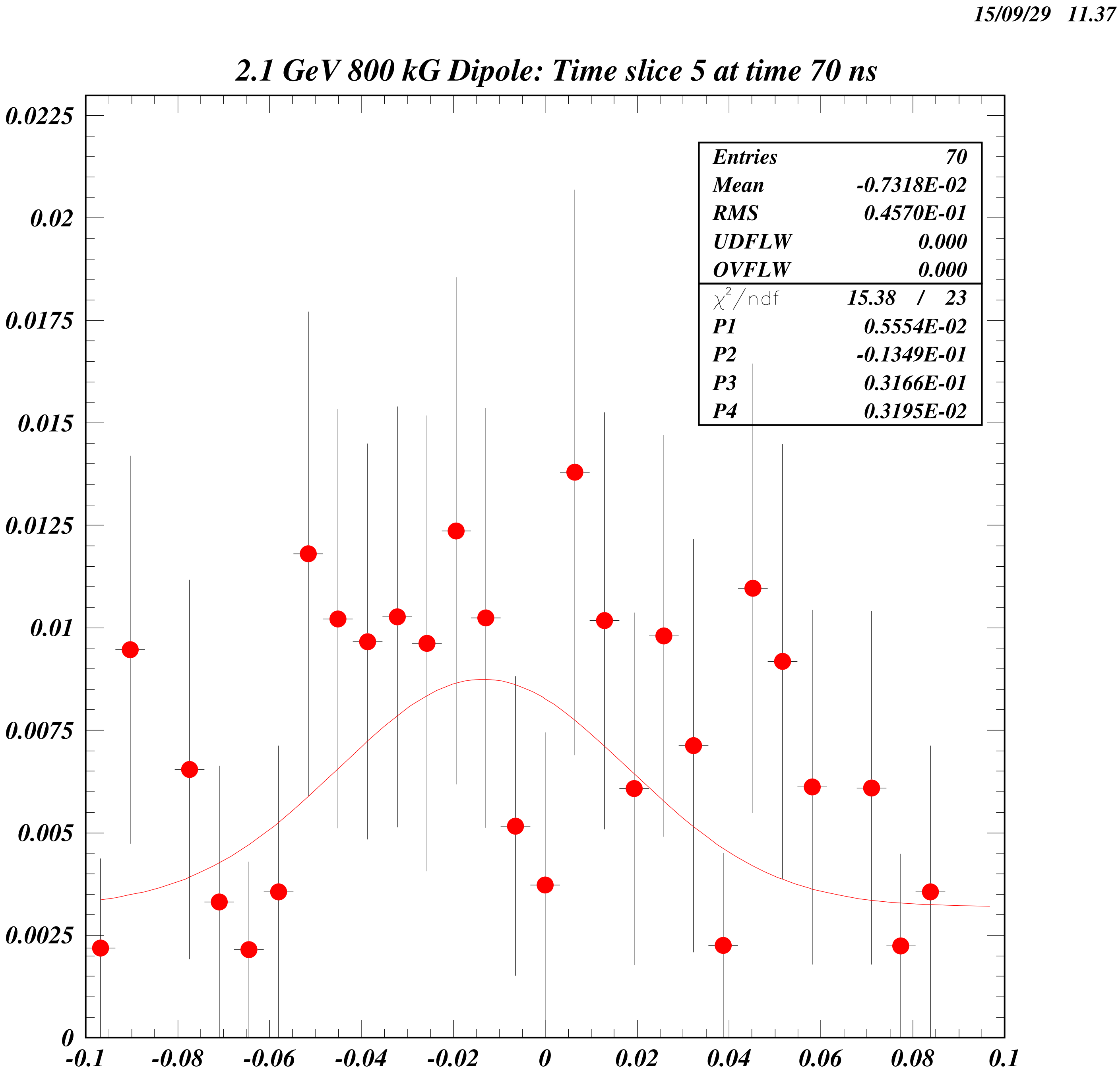
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 4 at time 56 ns
Entries 63
Mean 0.7079E-02
RMS 0.5865E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 9.757 / 20
P1 -0.3163E+08
P2 0.2136
P3 0.1726E-01
P4 0.6597E-02
Cloud charge in bin (10⁶ e)
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
Y (cm)

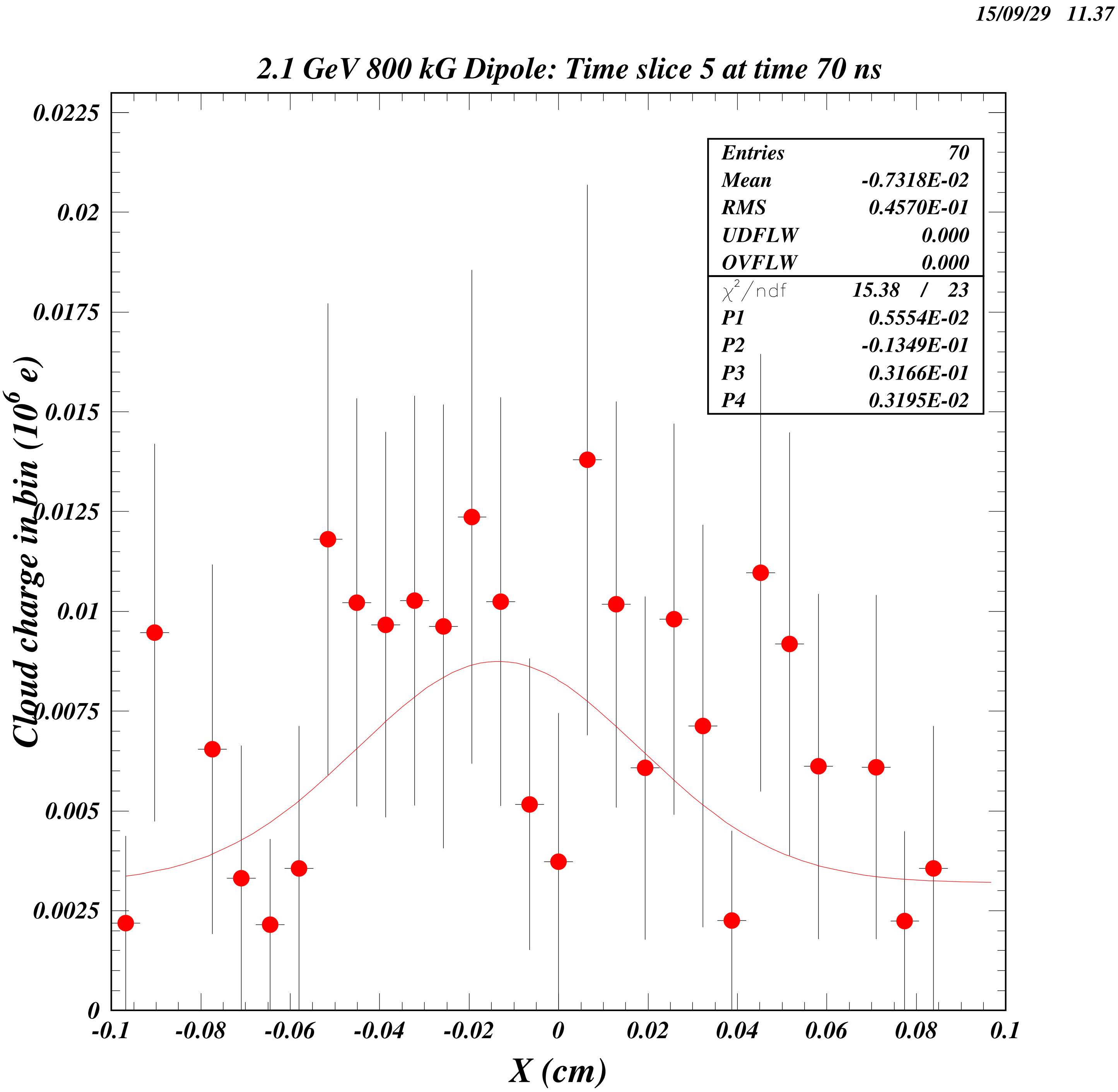
15/09/29 11.37



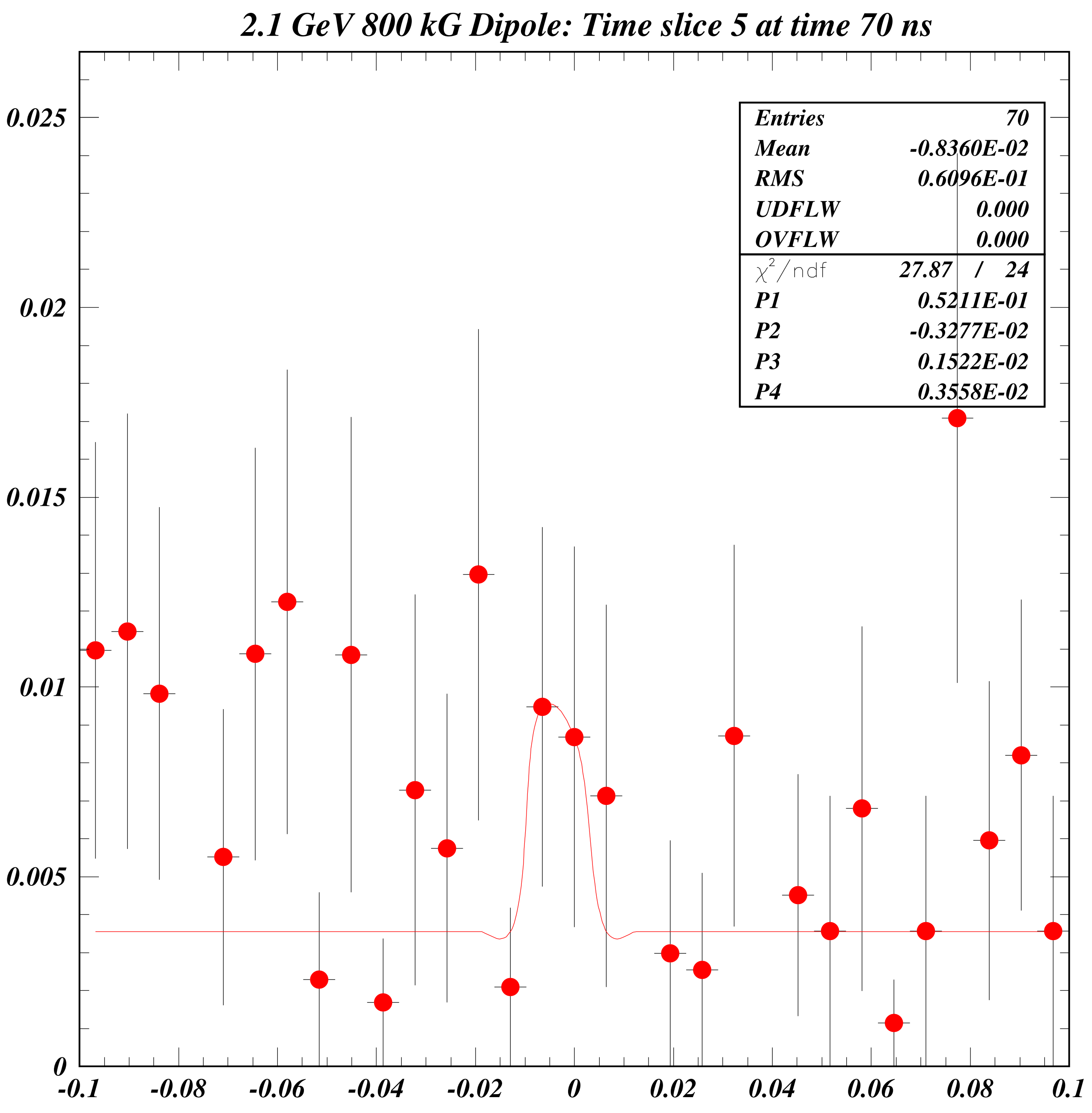
No energy cut: 0k macroparticles, 0 10^6 e-



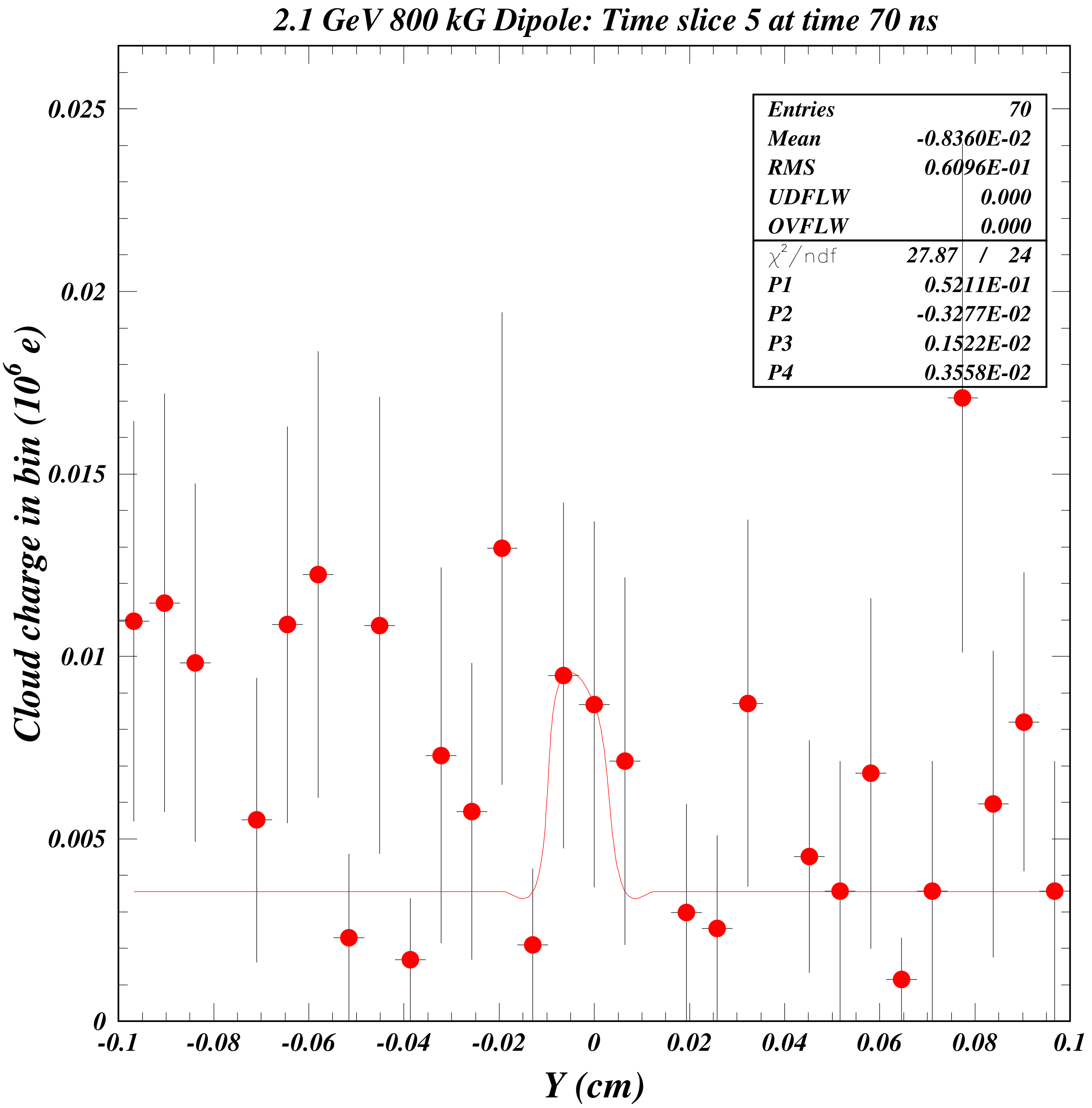
15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 5 at time 70 ns
Entries 70
Mean -0.7318E-02
RMS 0.4570E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 15.38 / 23
P1 0.5554E-02
P2 -0.1349E-01
P3 0.3166E-01
P4 0.3195E-02
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 5 at time 70 ns
Entries 70
Mean -0.7318E-02
RMS 0.4570E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 15.38 / 23
P1 0.5554E-02
P2 -0.1349E-01
P3 0.3166E-01
P4 0.3195E-02
Cloud charge in bin (10⁶ e)
X (cm)
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37

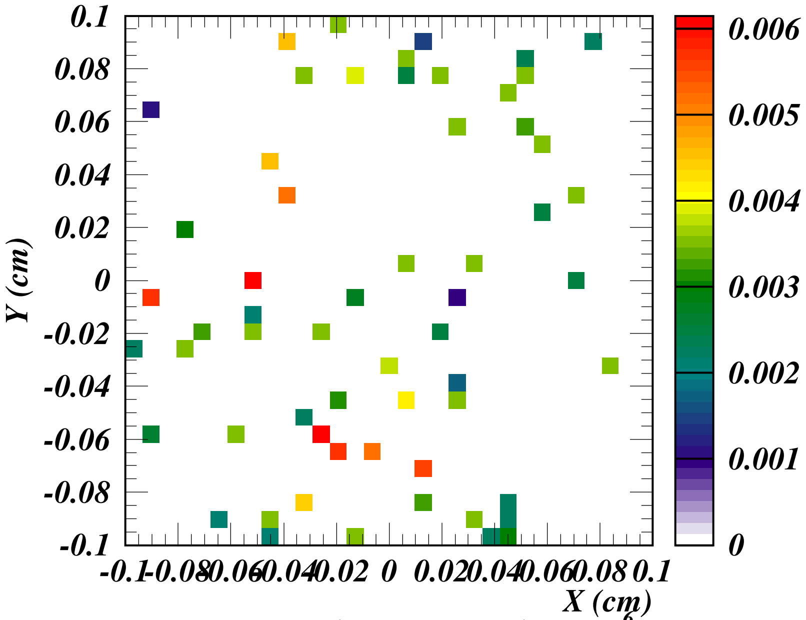

2.1 GeV 800 kG Dipole: Time slice 5 at time 70 ns
Entries 70
Mean -0.8360E-02
RMS 0.6096E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 27.87 / 24
P1 0.5211E-01
P2 -0.3277E-02
P3 0.1522E-02
P4 0.3558E-02
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37



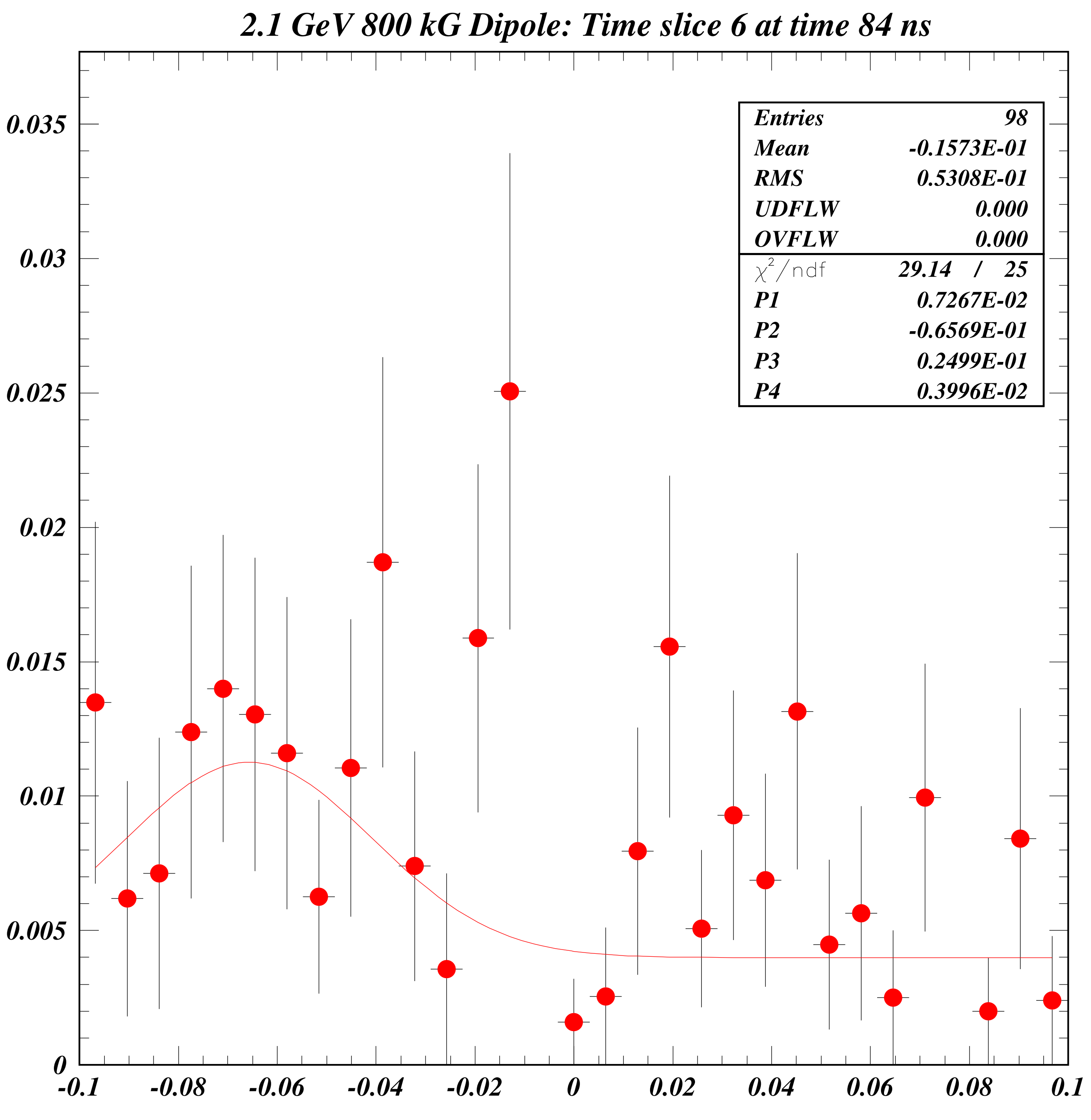
2.1 GeV 800 kG Dipole: Time slice 5 at time 70 ns
Entries 70
Mean -0.8360E-02
RMS 0.6096E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 27.87 / 24
P1 0.5211E-01
P2 -0.3277E-02
P3 0.1522E-02
P4 0.3558E-02
Cloud charge in bin (10⁶ e)
Y (cm)
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

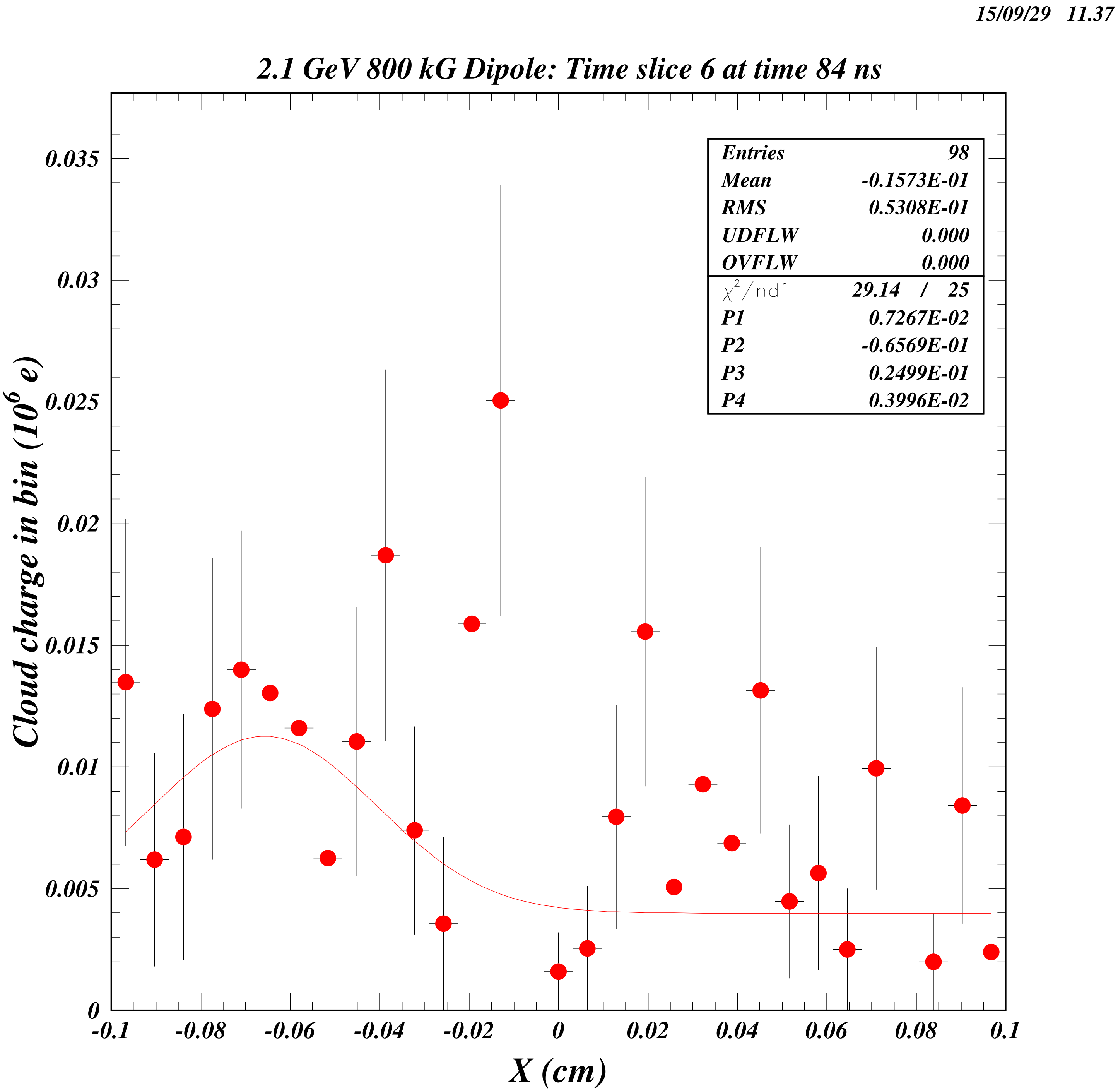
Snapshot after bunch 5 at time = 70 ns



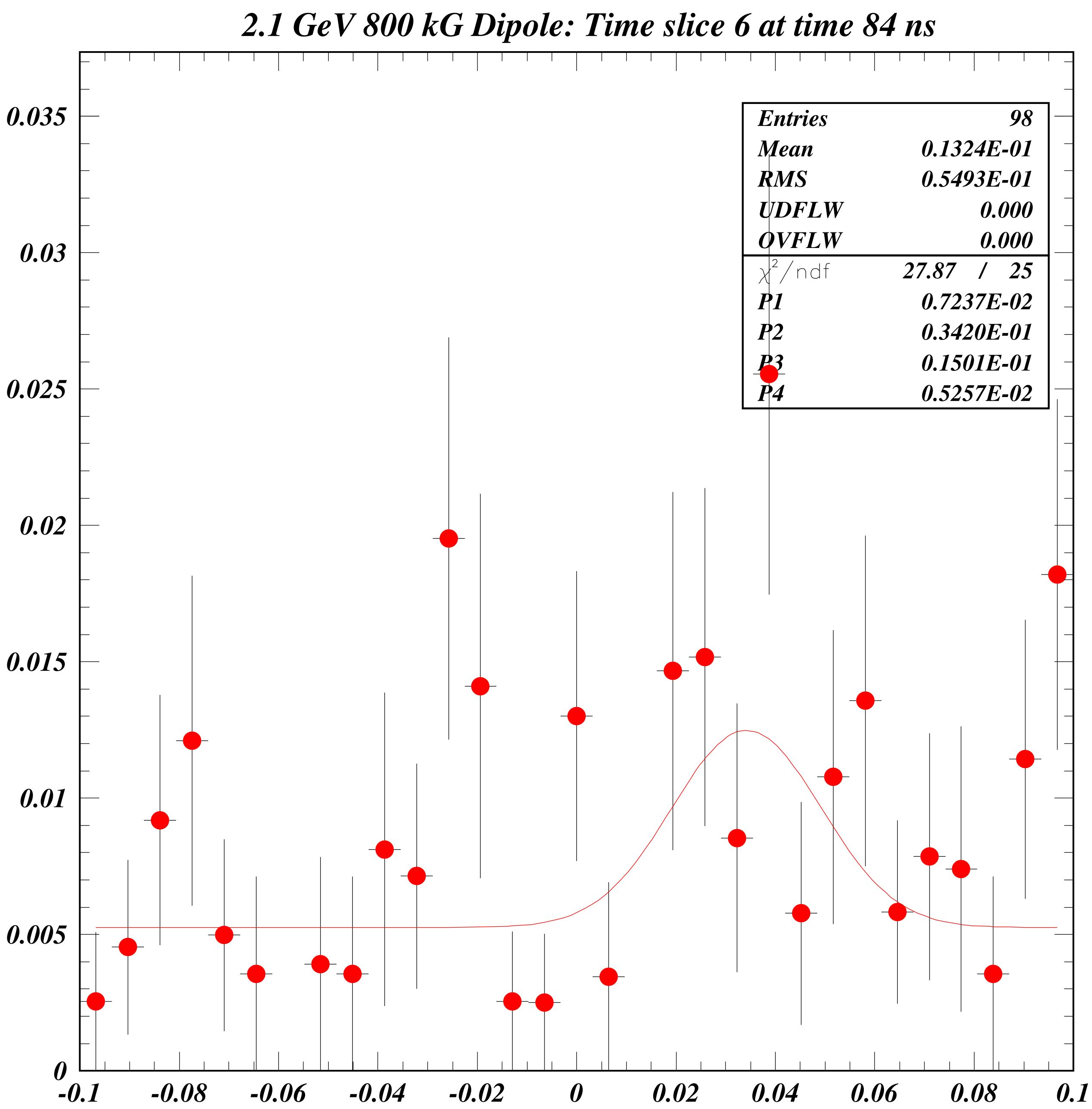
No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.37

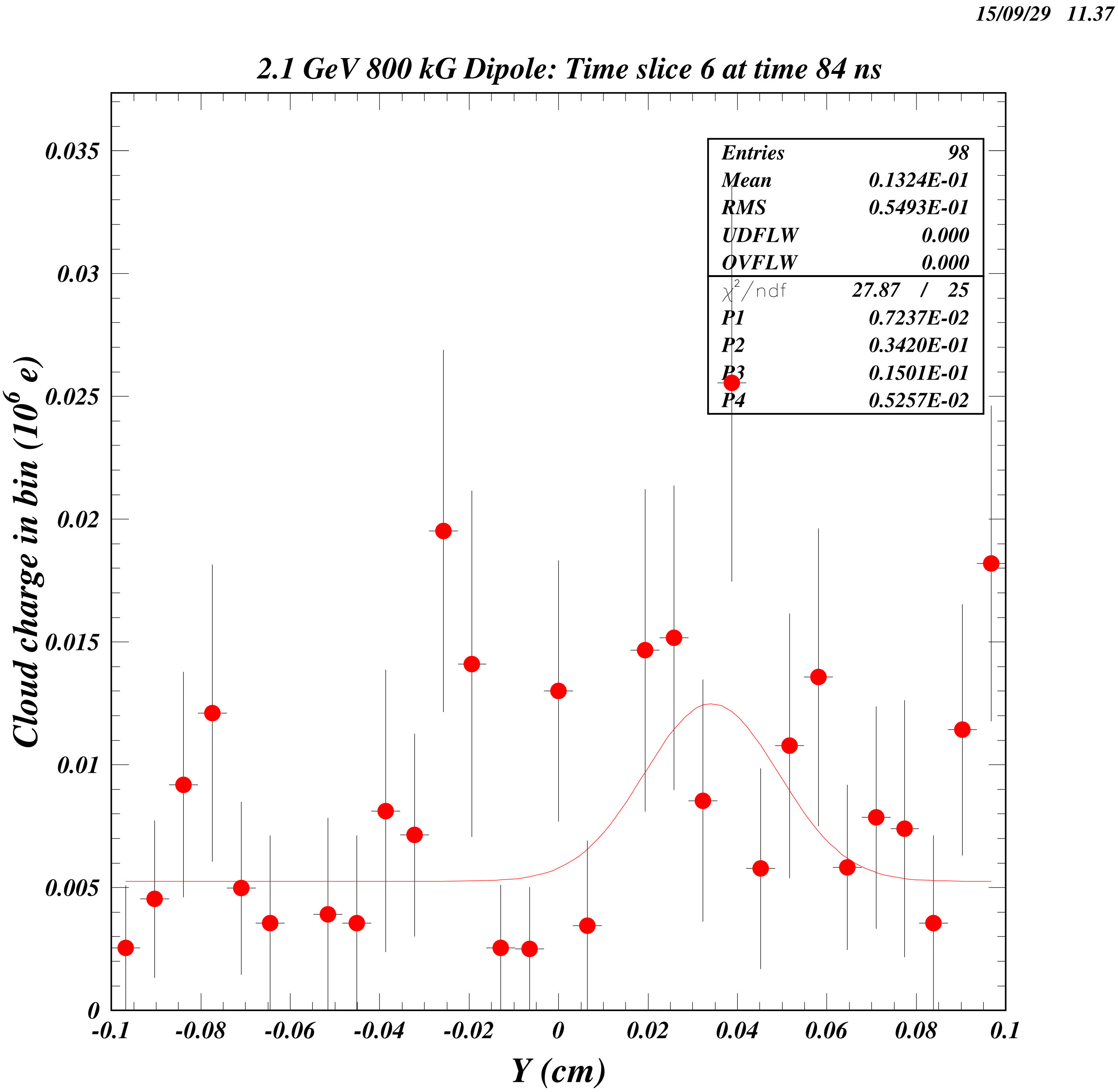

2.1 GeV 800 kG Dipole: Time slice 6 at time 84 ns
Entries 98
Mean -0.1573E-01
RMS 0.5308E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 29.14 / 25
P1 0.7267E-02
P2 -0.6569E-01
P3 0.2499E-01
P4 0.3996E-02
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 6 at time 84 ns
Entries 98
Mean -0.1573E-01
RMS 0.5308E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 29.14 / 25
P1 0.7267E-02
P2 -0.6569E-01
P3 0.2499E-01
P4 0.3996E-02
Cloud charge in bin (10⁶ e)
X (cm)

15/09/29 11.37

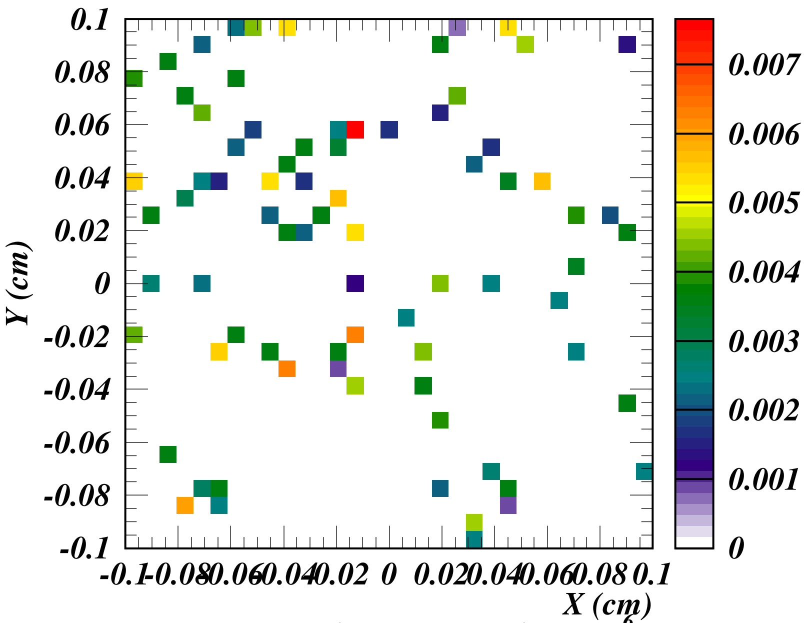


2.1 GeV 800 kG Dipole: Time slice 6 at time 84 ns
Entries 98
Mean 0.1324E-01
RMS 0.5493E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 27.87 / 25
P1 0.7237E-02
P2 0.3420E-01
P3 0.1501E-01
P4 0.5257E-02
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 6 at time 84 ns
Entries 98
Mean 0.1324E-01
RMS 0.5493E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 27.87 / 25
P1 0.7237E-02
P2 0.3420E-01
P3 0.1501E-01
P4 0.5257E-02
Cloud charge in bin (10⁶ e)
Y (cm)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

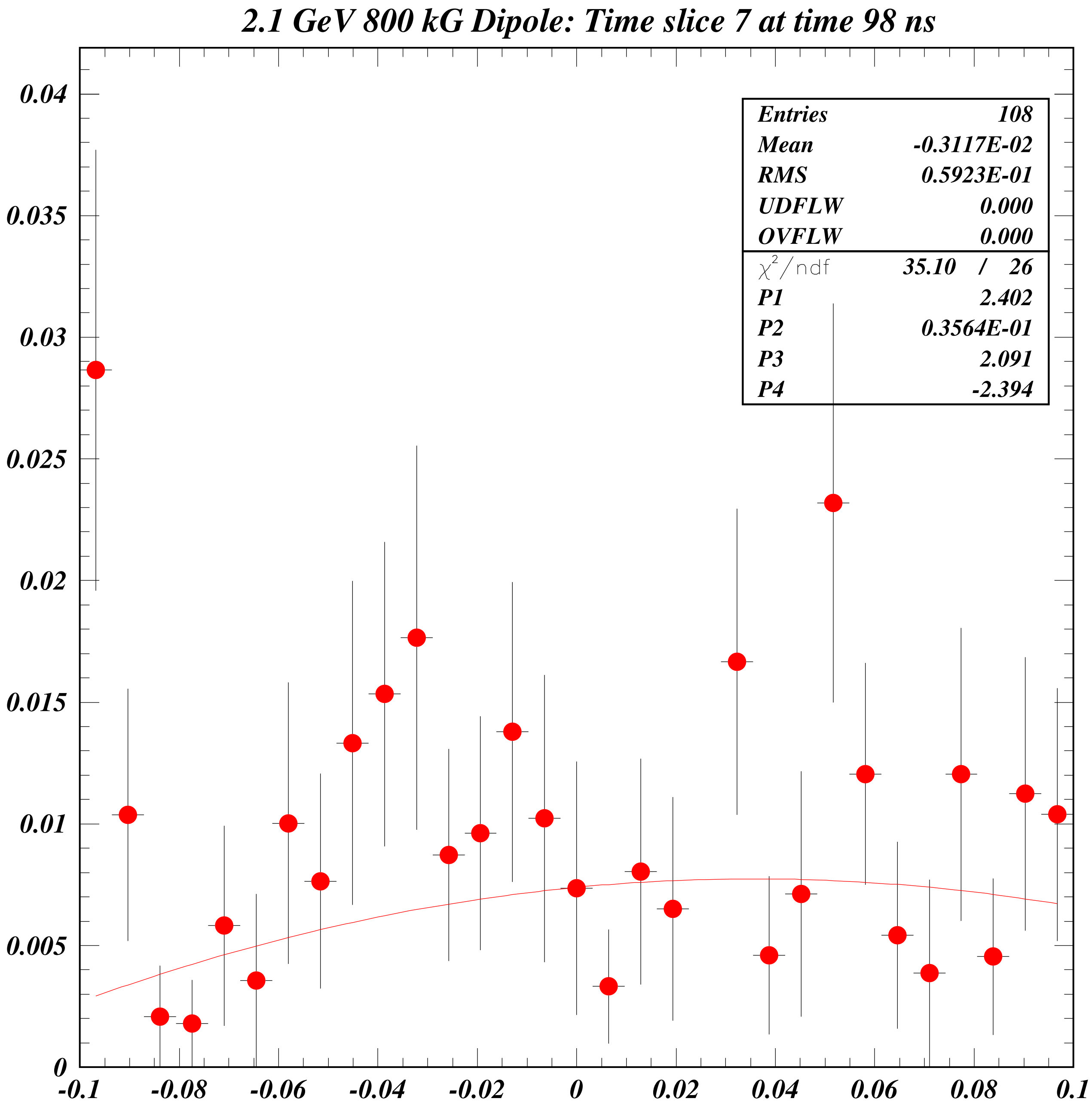
15/09/29 11.37

Snapshot after bunch 6 at time = 84 ns

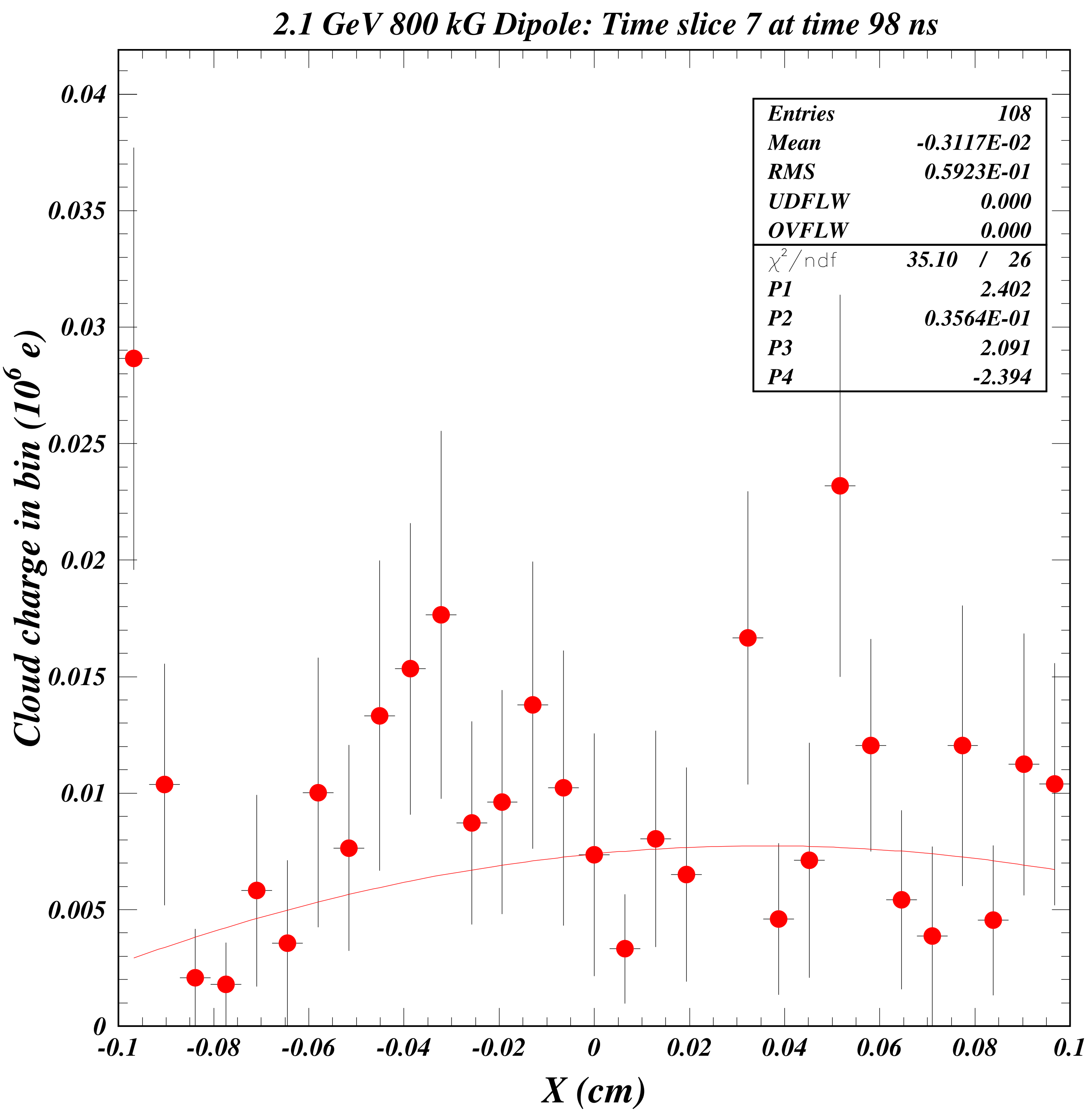


No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 7 at time 98 ns
Entries 108
Mean -0.3117E-02
RMS 0.5923E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.10 / 26
P1 2.402
P2 0.3564E-01
P3 2.091
P4 -2.394
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

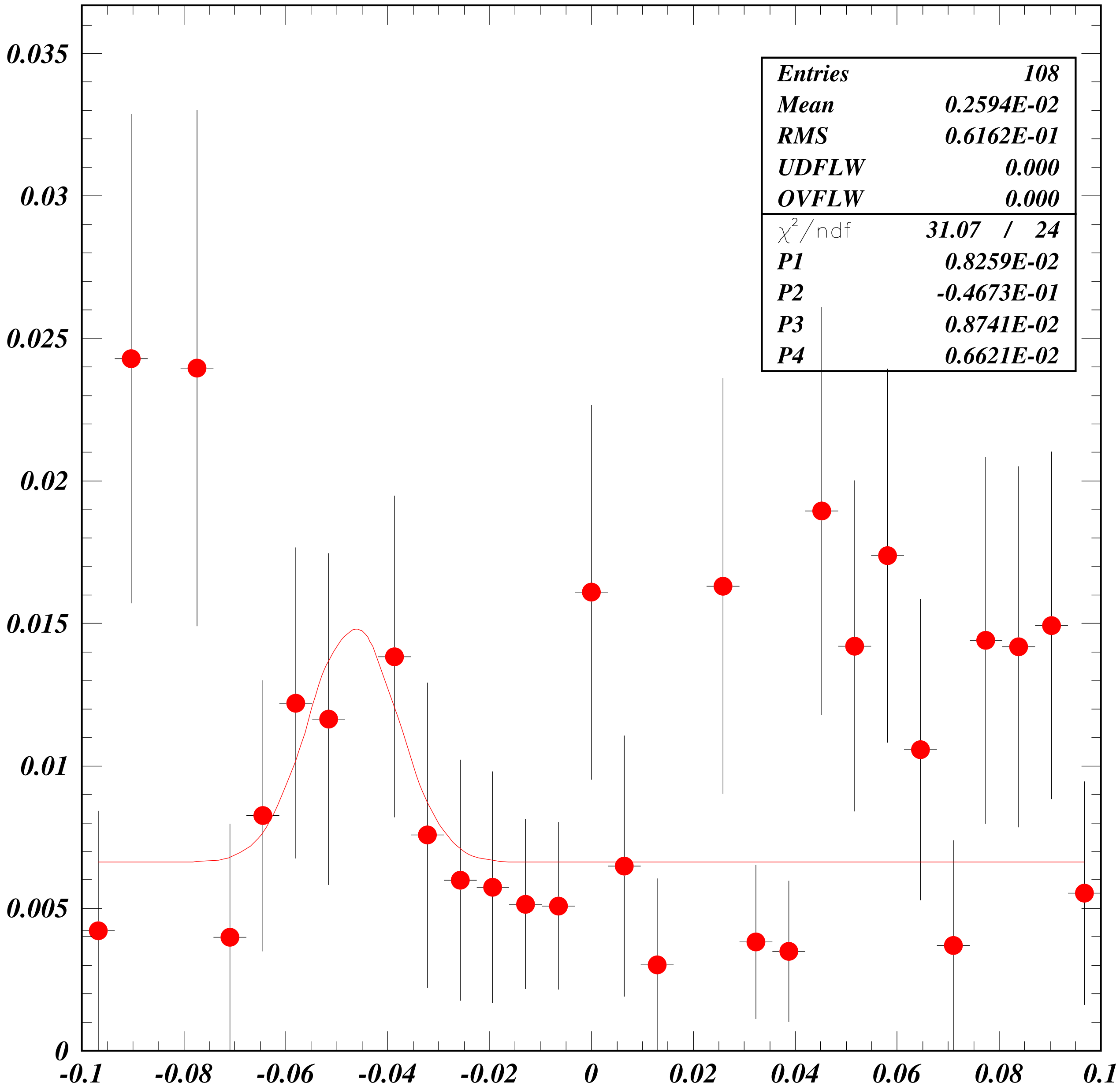
15/09/29   11.37



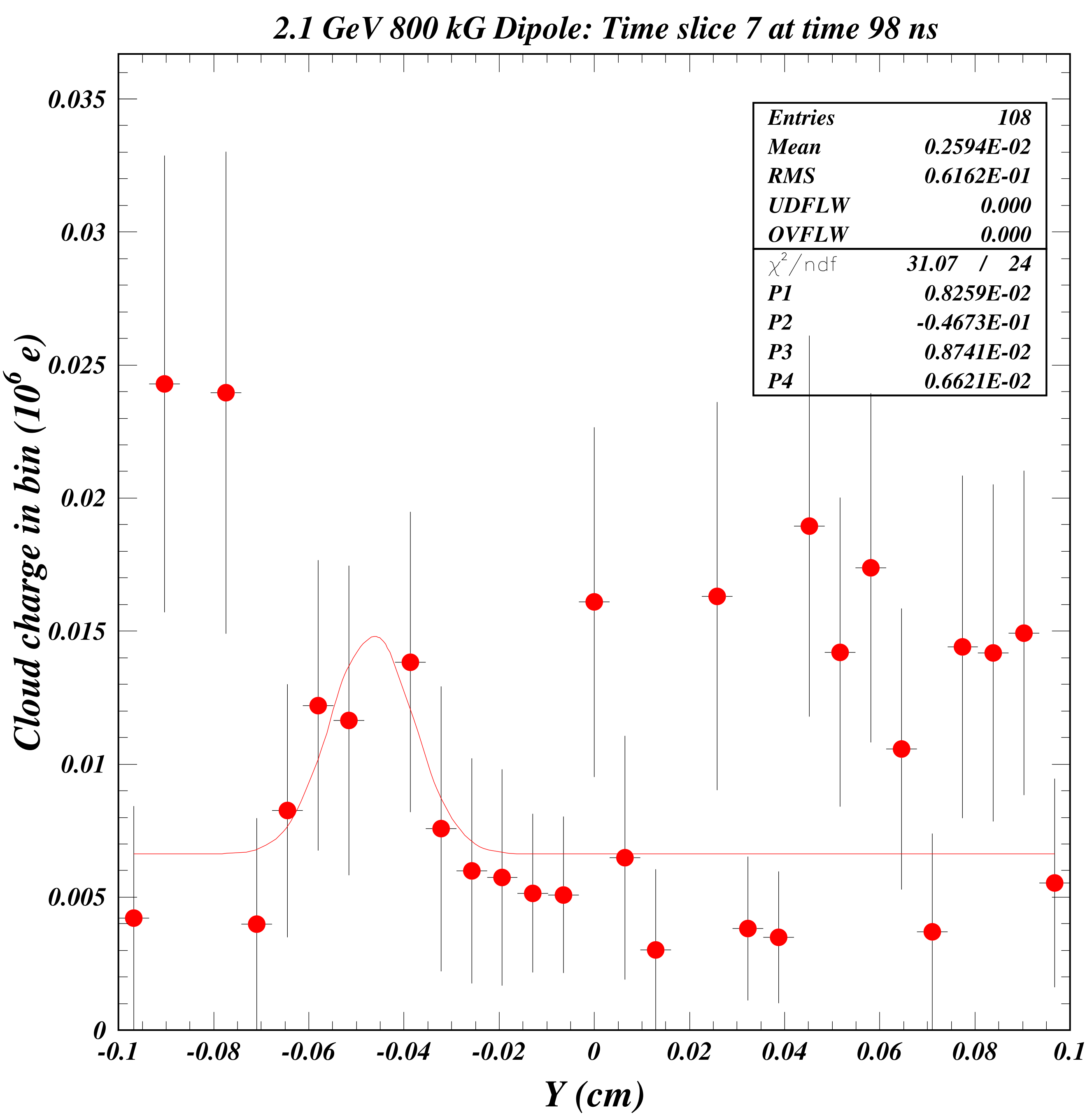
2.1 GeV 800 kG Dipole: Time slice 7 at time 98 ns
Entries 108
Mean -0.3117E-02
RMS 0.5923E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.10 / 26
P1 2.402
P2 0.3564E-01
P3 2.091
P4 -2.394
Cloud charge in bin (10^6 e)
X (cm)
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37

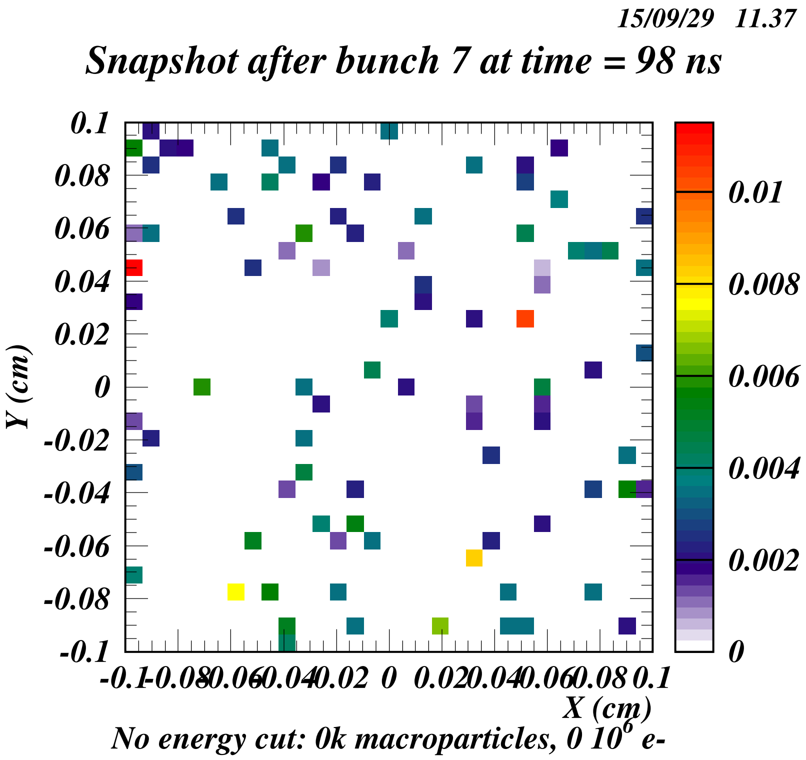
2.1 GeV 800 kG Dipole: Time slice 7 at time 98 ns



15/09/29 11.37

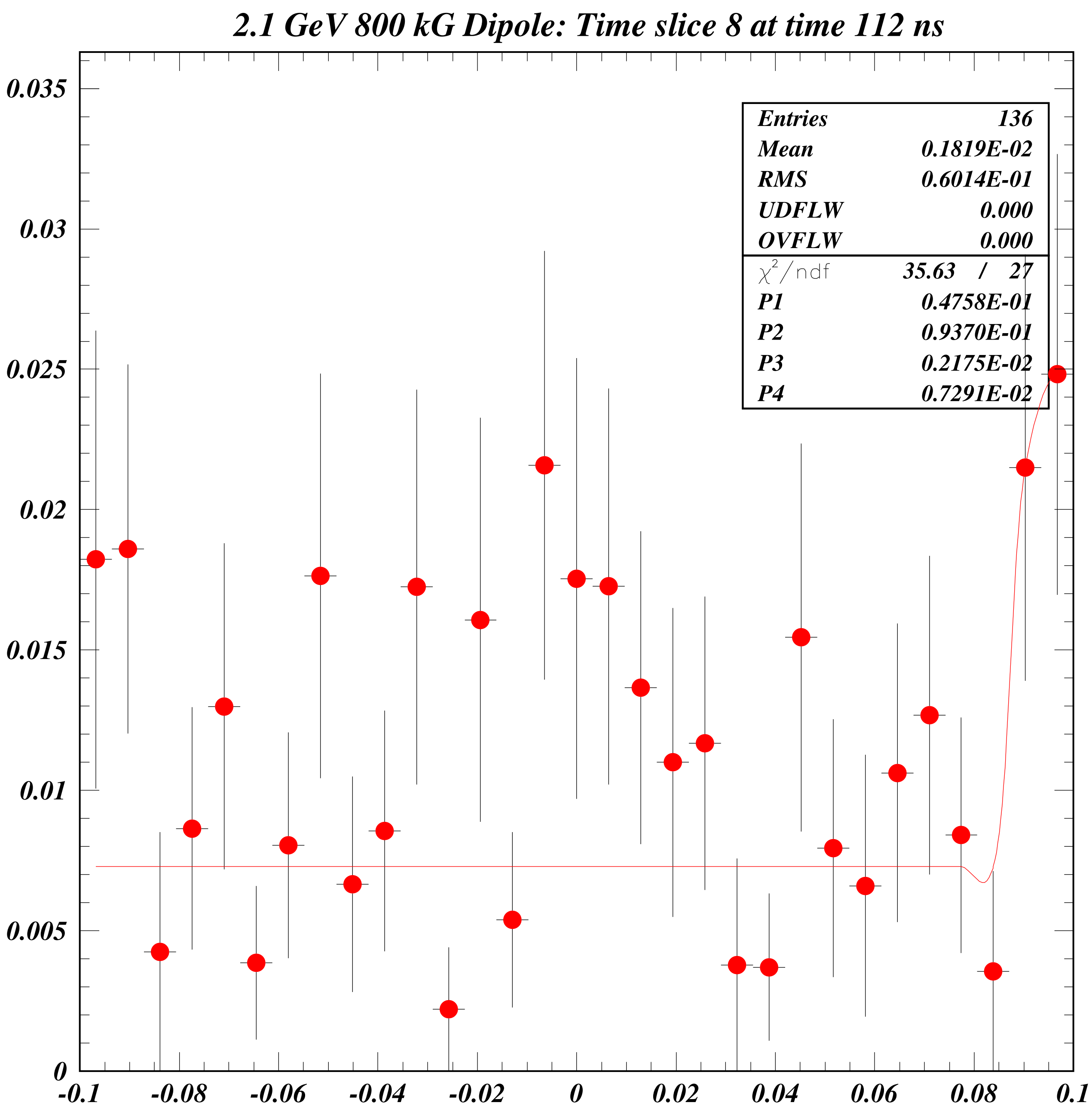


2.1 GeV 800 kG Dipole: Time slice 7 at time 98 ns
Entries 108
Mean 0.2594E-02
RMS 0.6162E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 31.07 / 24
P1 0.8259E-02
P2 -0.4673E-01
P3 0.8741E-02
P4 0.6621E-02
Cloud charge in bin (10⁶ e)
Y (cm)

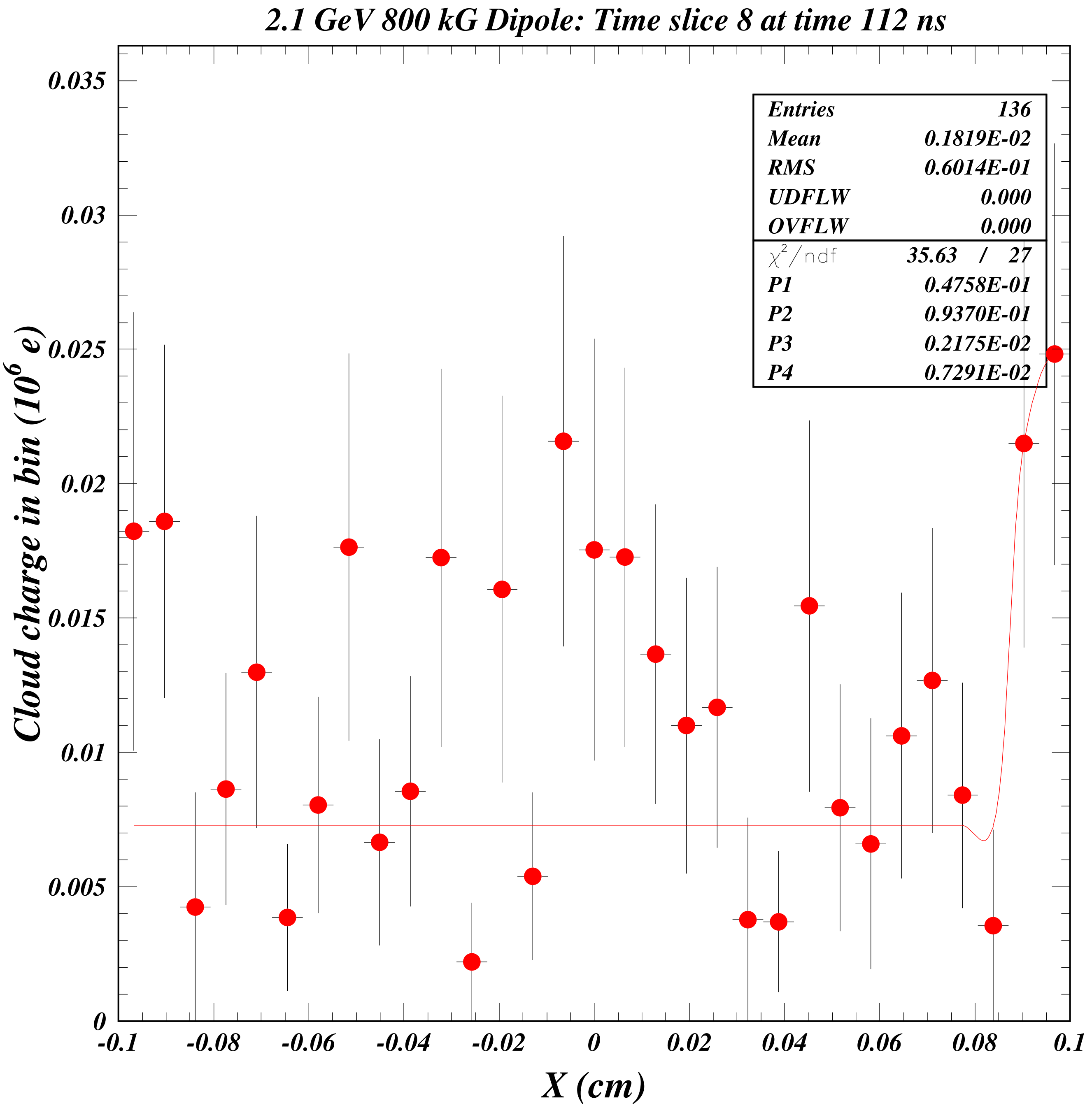


15/09/29 11.37
Snapshot after bunch 7 at time = 98 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 0 10^6 e-

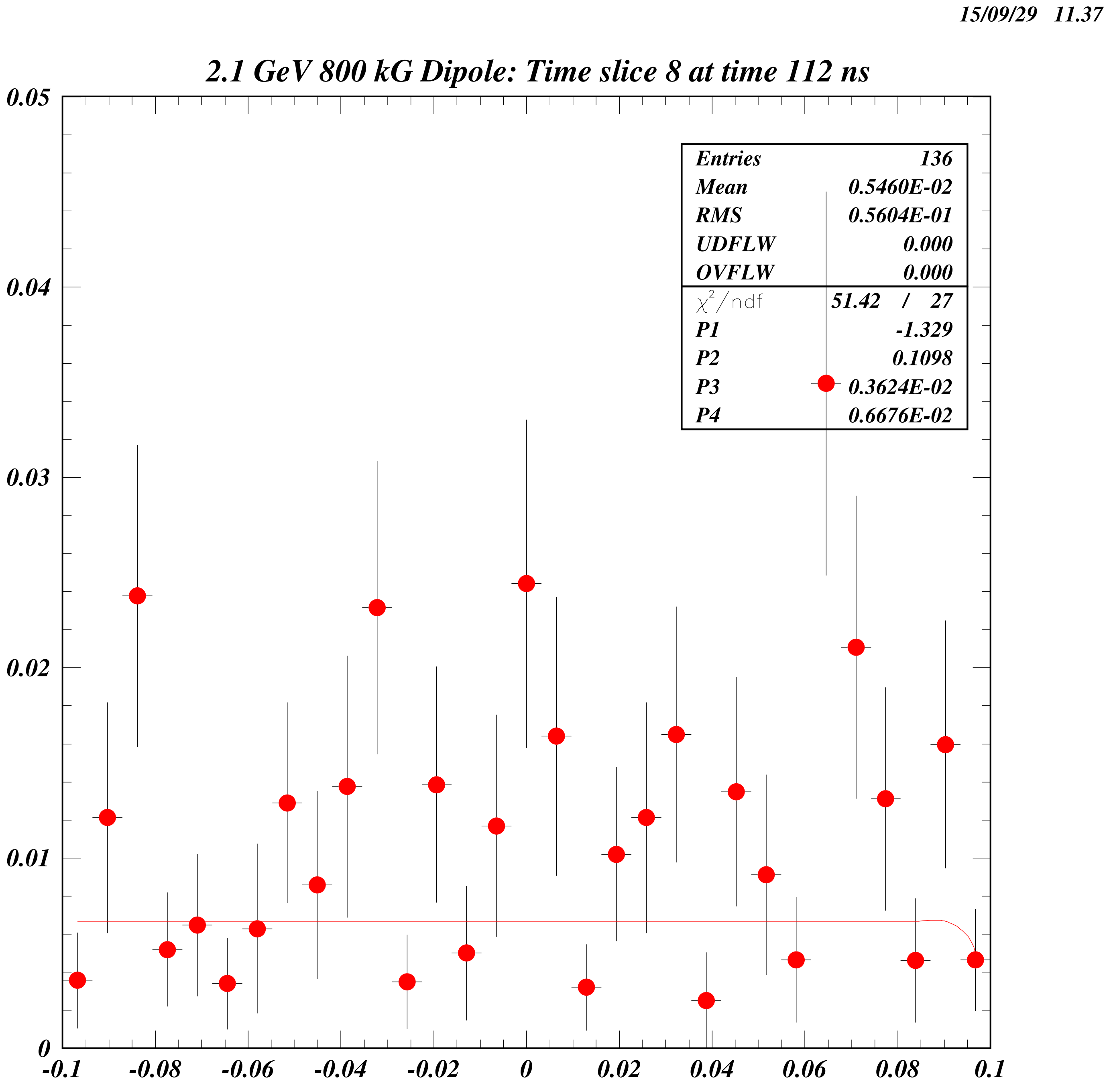
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 8 at time 112 ns
Entries 136
Mean 0.1819E-02
RMS 0.6014E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.63 / 27
P1 0.4758E-01
P2 0.9370E-01
P3 0.2175E-02
P4 0.7291E-02
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

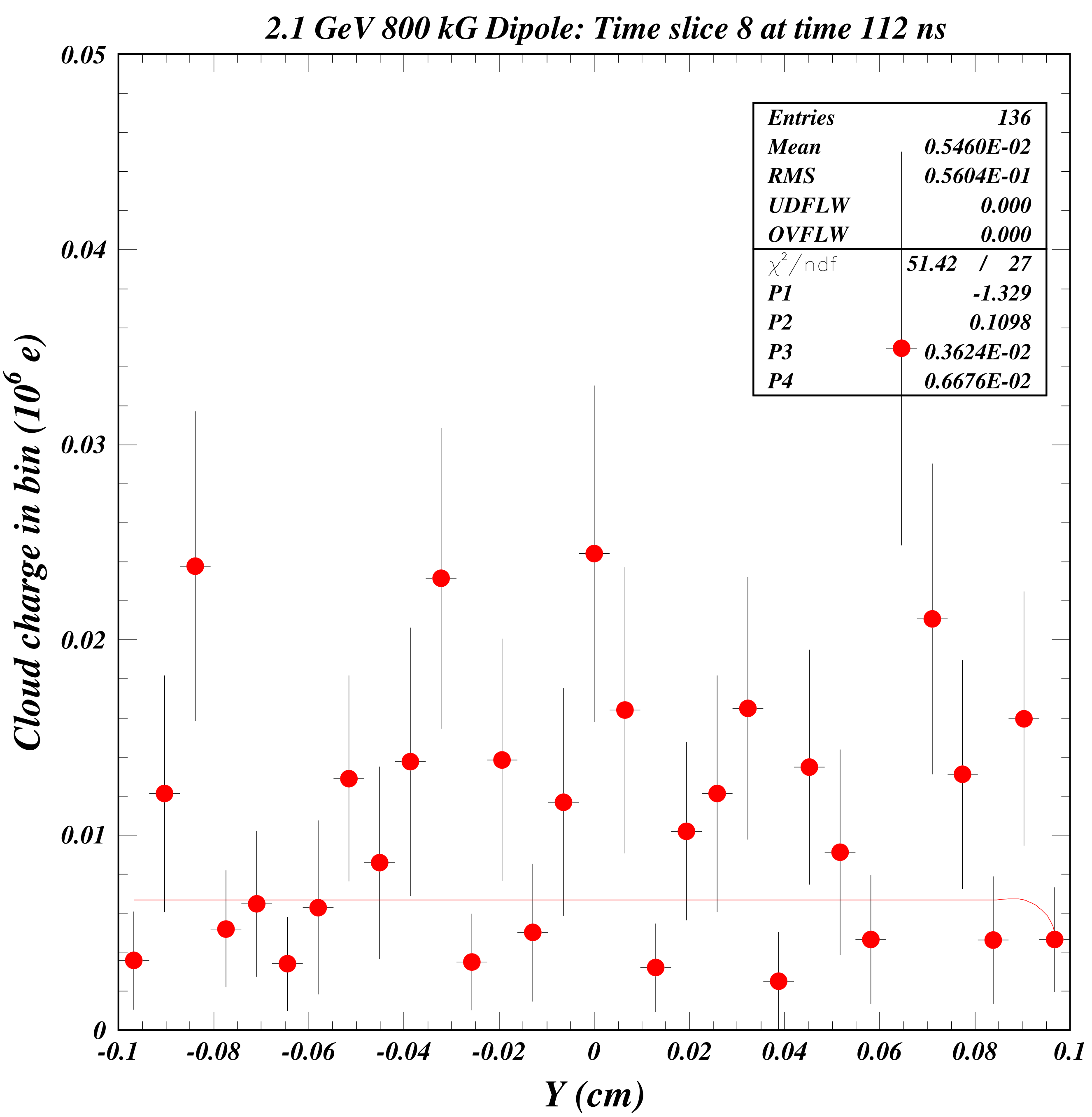
15/09/29 11.37



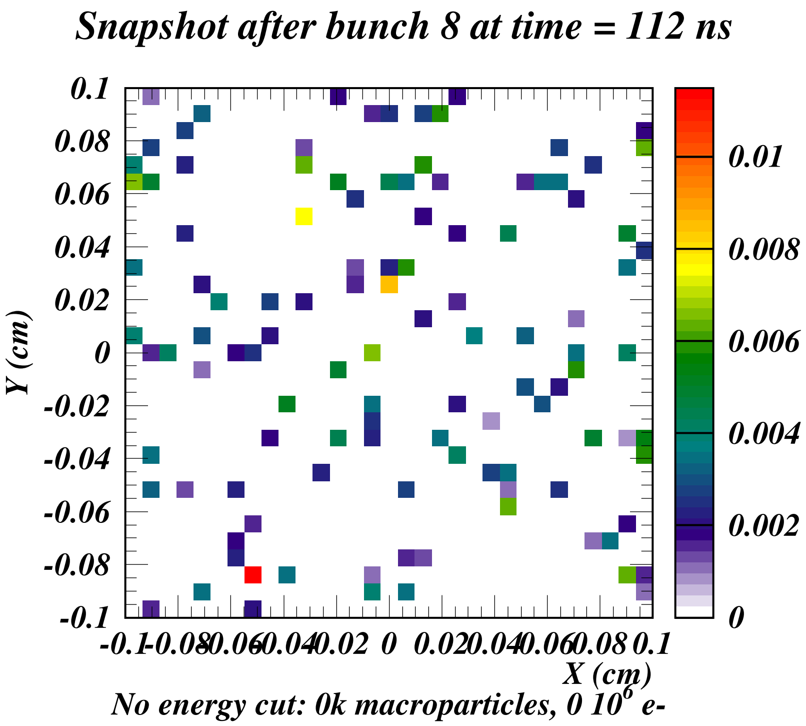
2.1 GeV 800 kG Dipole: Time slice 8 at time 112 ns
Entries 136
Mean 0.1819E-02
RMS 0.6014E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.63 / 27
P1 0.4758E-01
P2 0.9370E-01
P3 0.2175E-02
P4 0.7291E-02
Cloud charge in bin (10⁶ e)
X (cm)
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 8 at time 112 ns
Entries 136
Mean 0.5460E-02
RMS 0.5604E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 51.42 / 27
P1 -1.329
P2 0.1098
P3 0.3624E-02
P4 0.6676E-02
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37

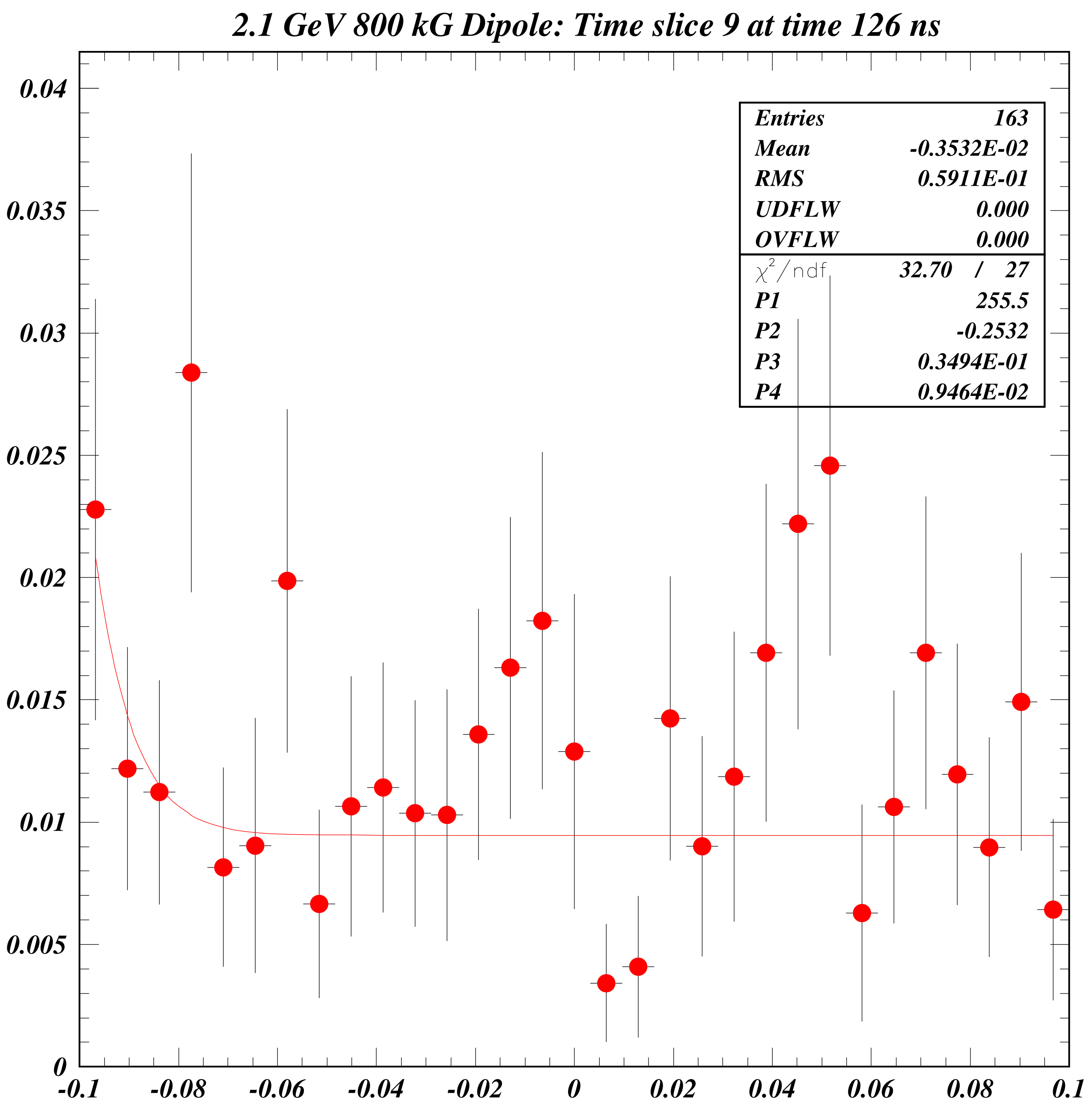

2.1 GeV 800 kG Dipole: Time slice 8 at time 112 ns
Entries 136
Mean 0.5460E-02
RMS 0.5604E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 51.42 / 27
P1 -1.329
P2 0.1098
P3 0.3624E-02
P4 0.6676E-02
Cloud charge in bin (10⁶ e)
Y (cm)
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37

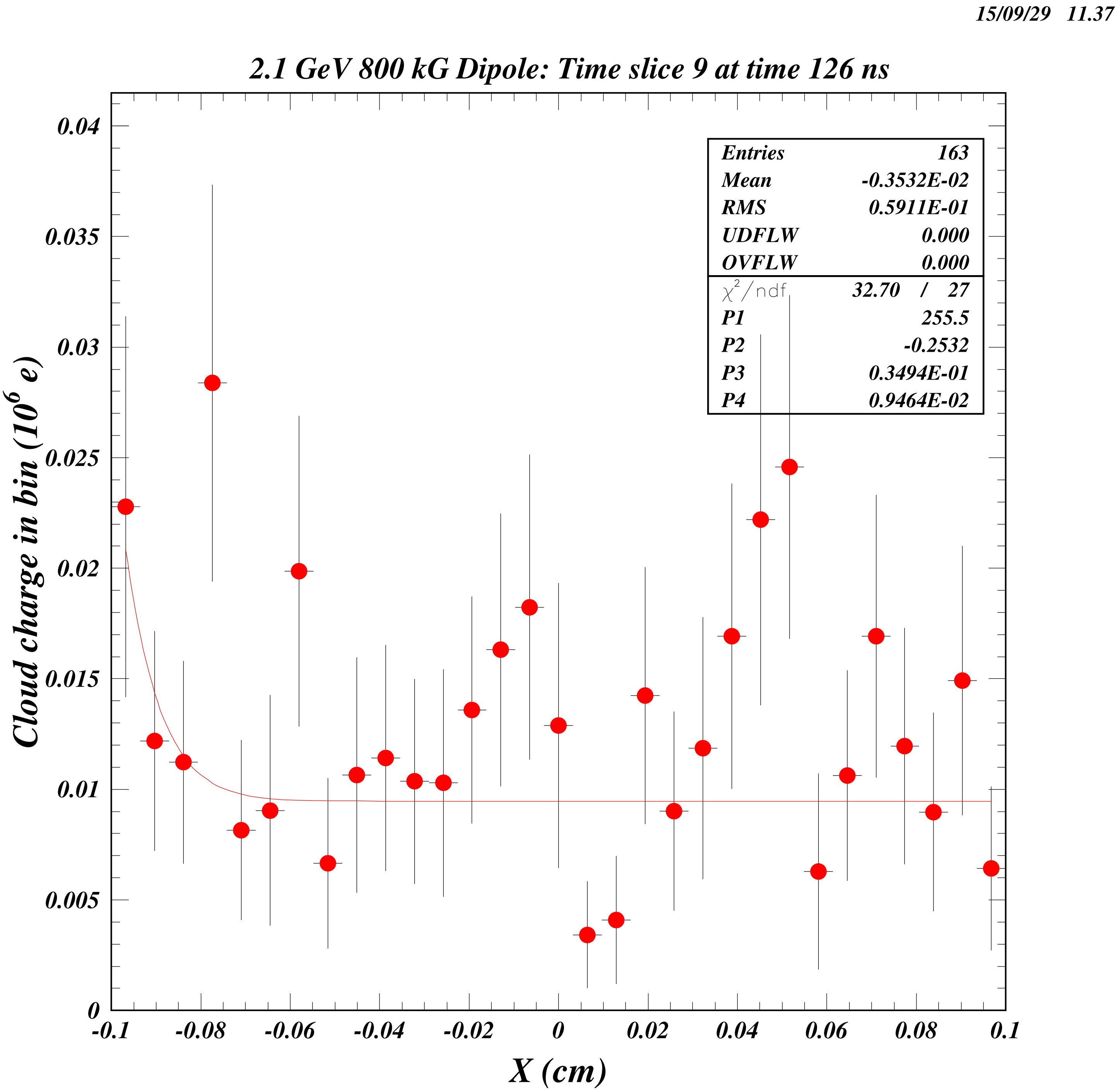


Snapshot after bunch 8 at time = 112 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 0 10^6 e-

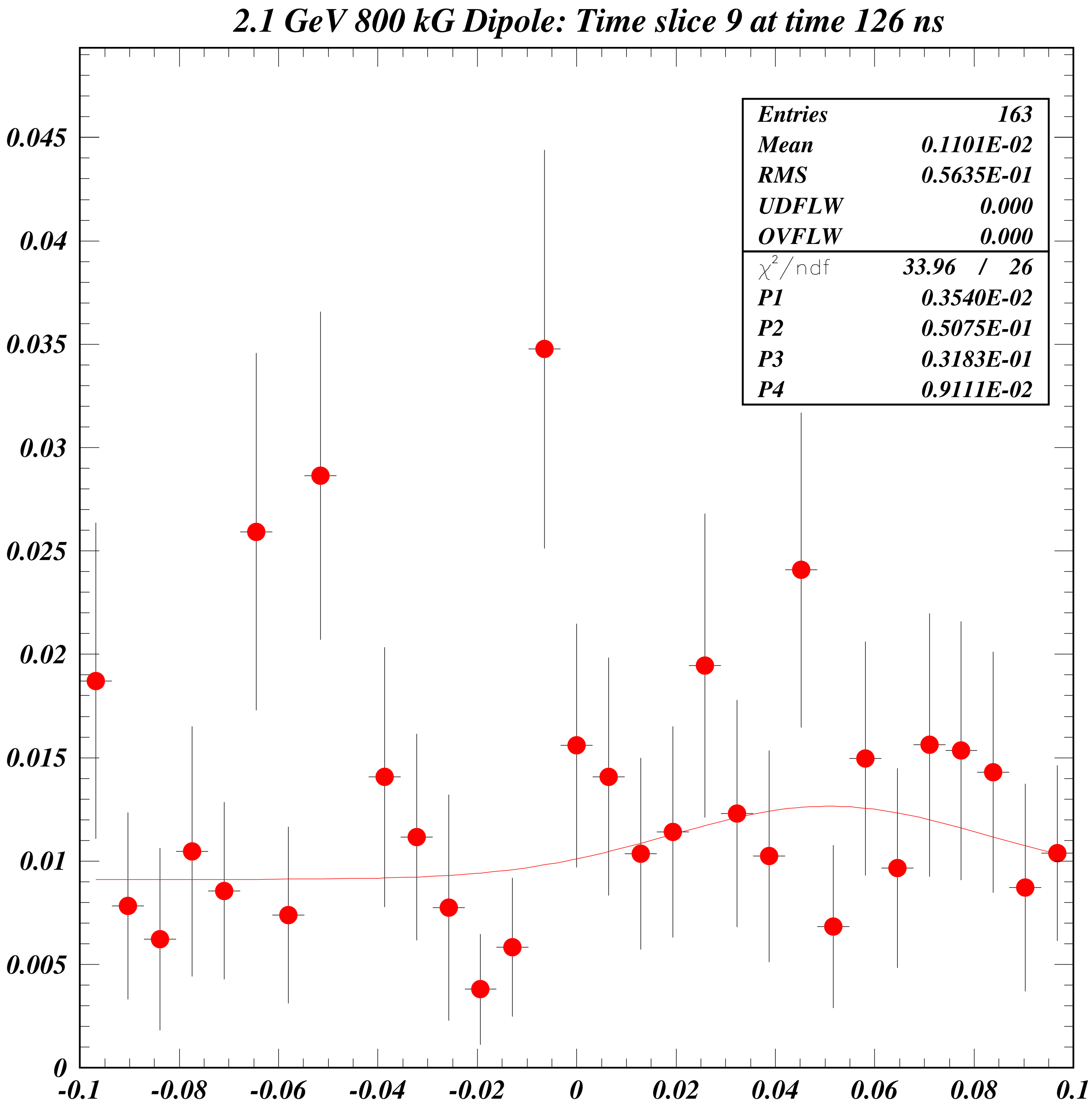
15/09/29 11.37



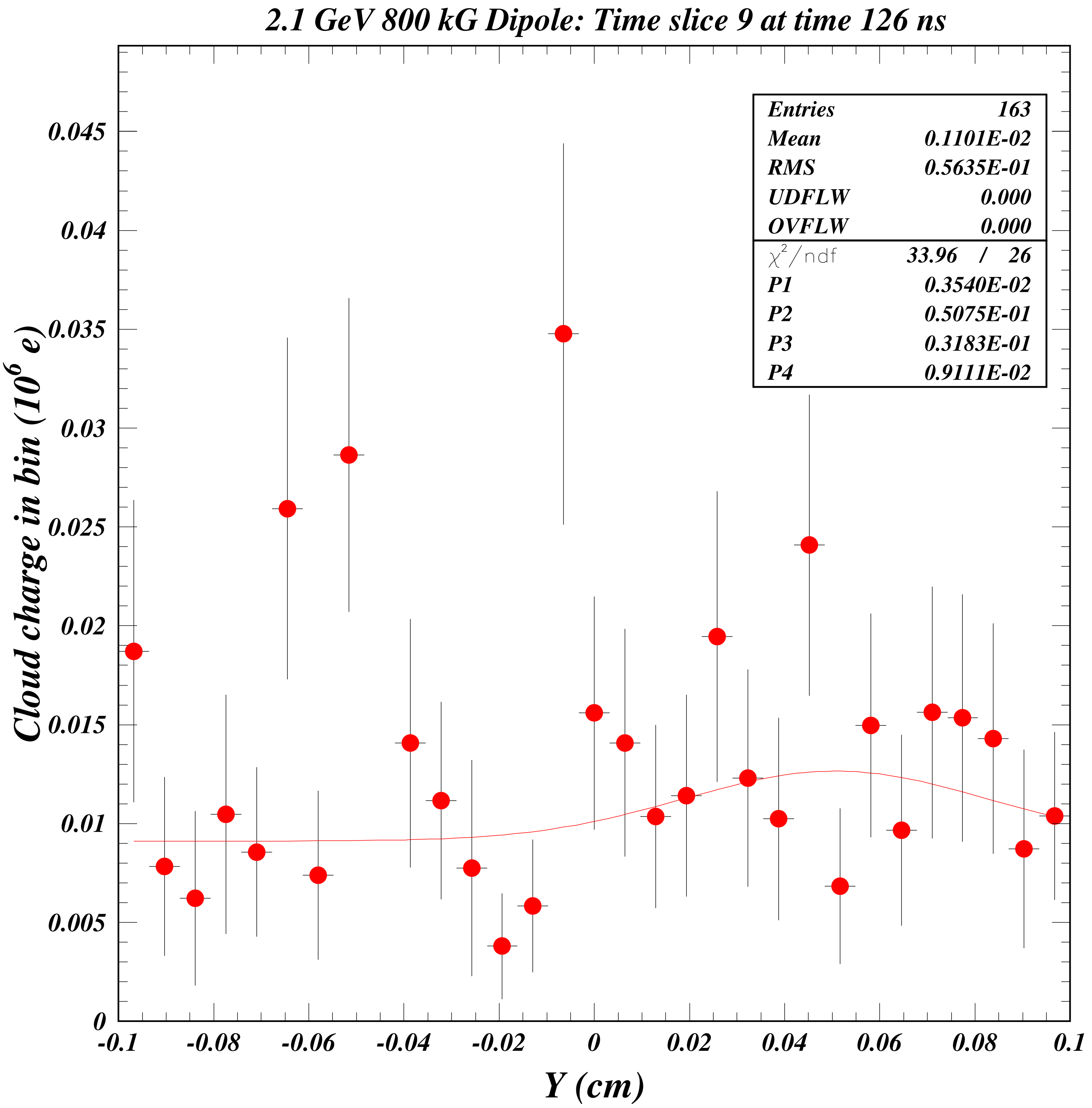
2.1 GeV 800 kG Dipole: Time slice 9 at time 126 ns
Entries 163
Mean -0.3532E-02
RMS 0.5911E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 32.70 / 27
P1 255.5
P2 -0.2532
P3 0.3494E-01
P4 0.9464E-02
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 9 at time 126 ns
Entries 163
Mean -0.3532E-02
RMS 0.5911E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 32.70 / 27
P1 255.5
P2 -0.2532
P3 0.3494E-01
P4 0.9464E-02
Cloud charge in bin (10⁶ e)
X (cm)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

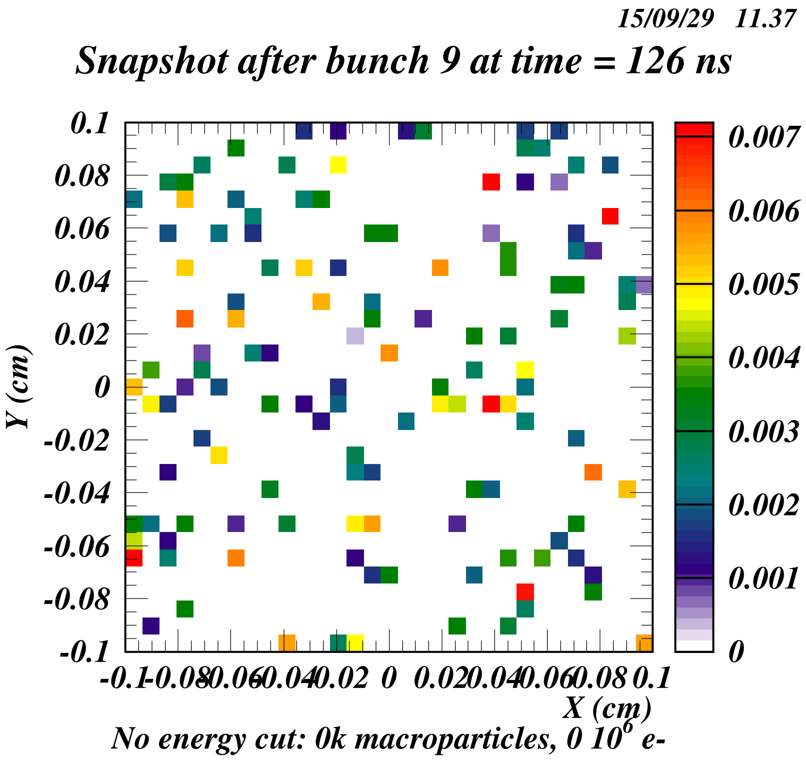
15/09/29 11.37


2.1 GeV 800 kG Dipole: Time slice 9 at time 126 ns
Entries 163
Mean 0.1101E-02
RMS 0.5635E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 33.96 / 26
P1 0.3540E-02
P2 0.5075E-01
P3 0.3183E-01
P4 0.9111E-02
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37

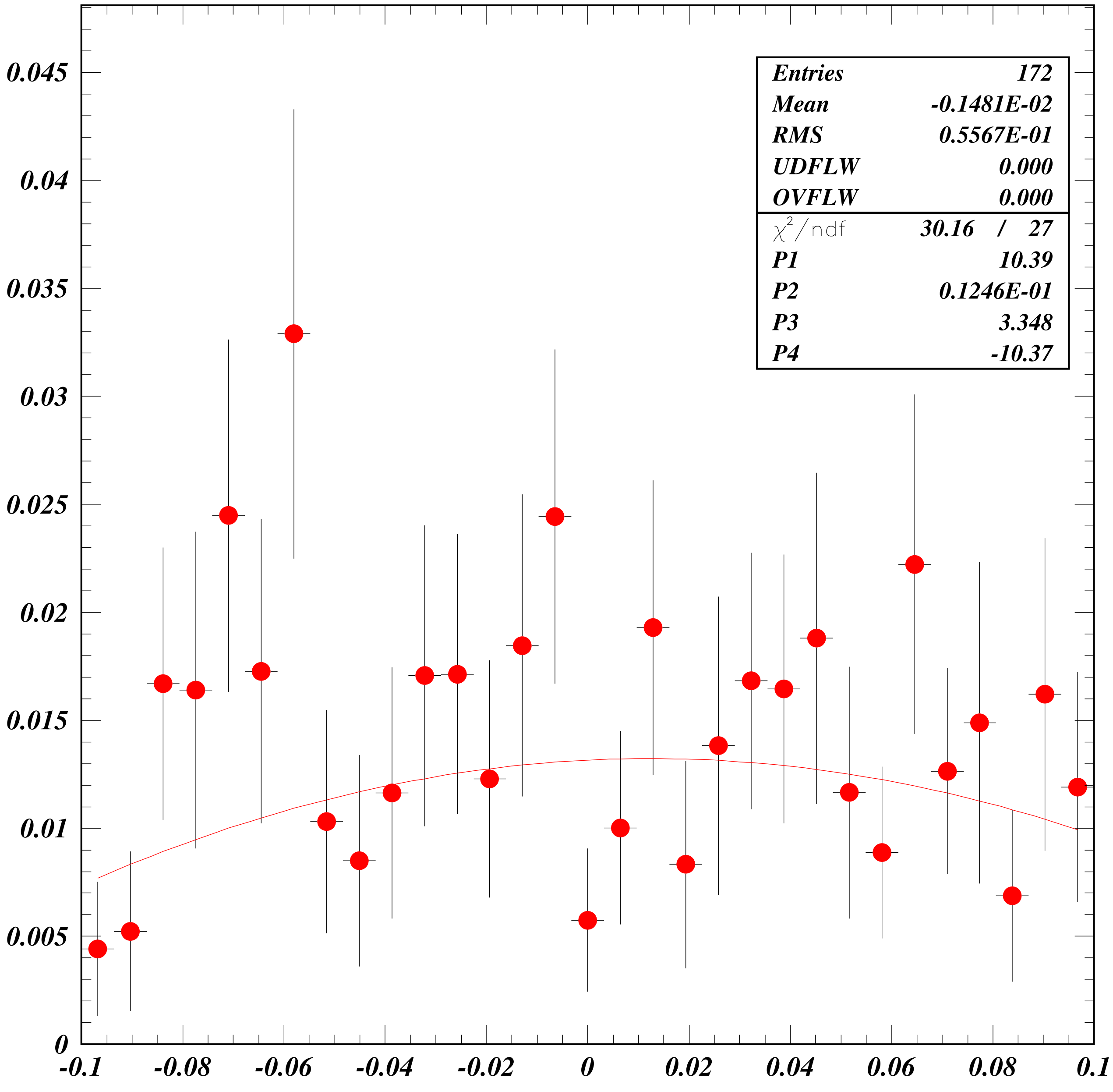


2.1 GeV 800 kG Dipole: Time slice 9 at time 126 ns
Entries 163
Mean 0.1101E-02
RMS 0.5635E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 33.96 / 26
P1 0.3540E-02
P2 0.5075E-01
P3 0.3183E-01
P4 0.9111E-02
Cloud charge in bin (10⁶ e)
Y (cm)

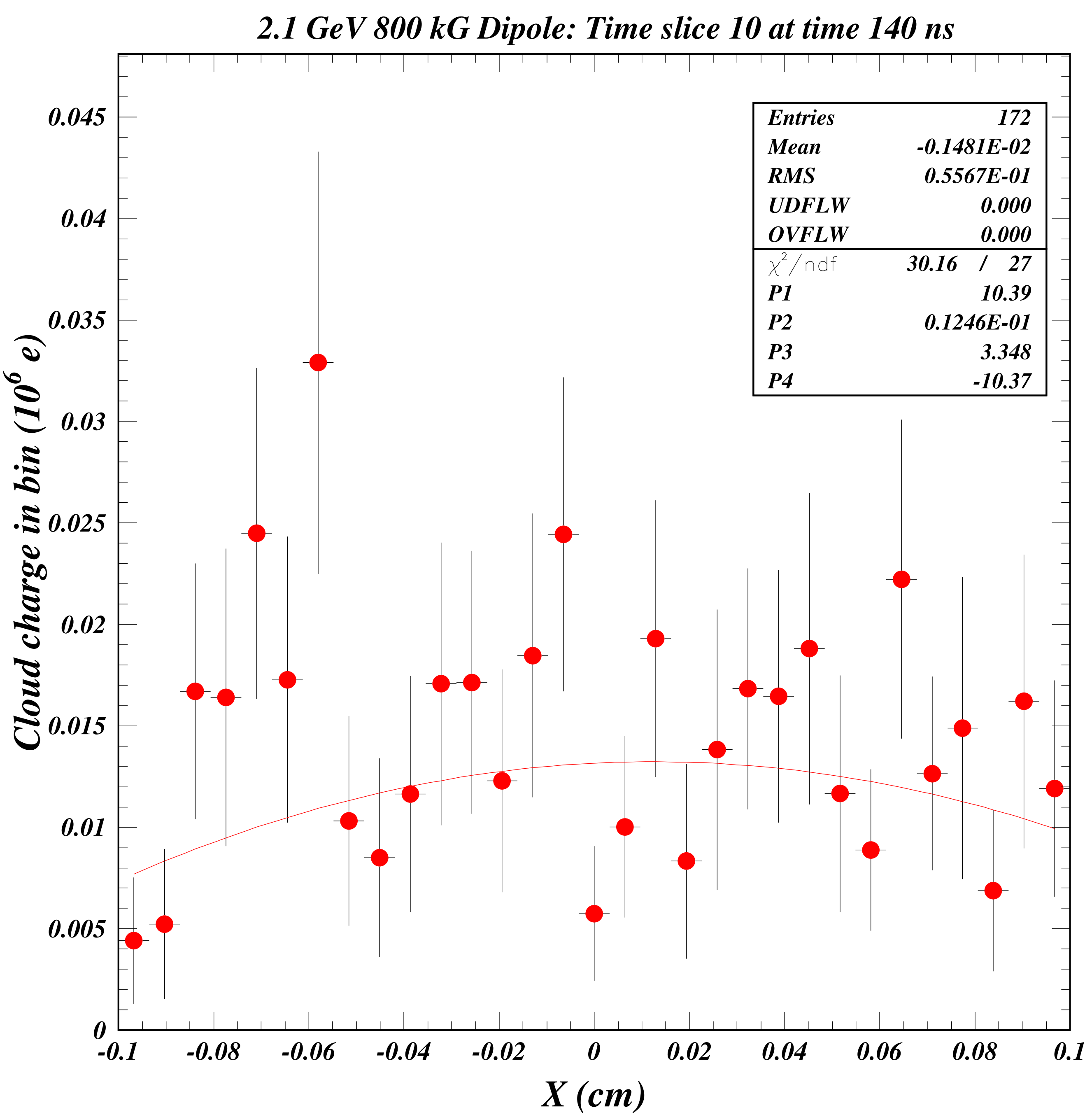

15/09/29 11.37
Snapshot after bunch 9 at time = 126 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.007
0.006
0.005
0.004
0.003
0.002
0.001
No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.37

2.1 GeV 800 kG Dipole: Time slice 10 at time 140 ns

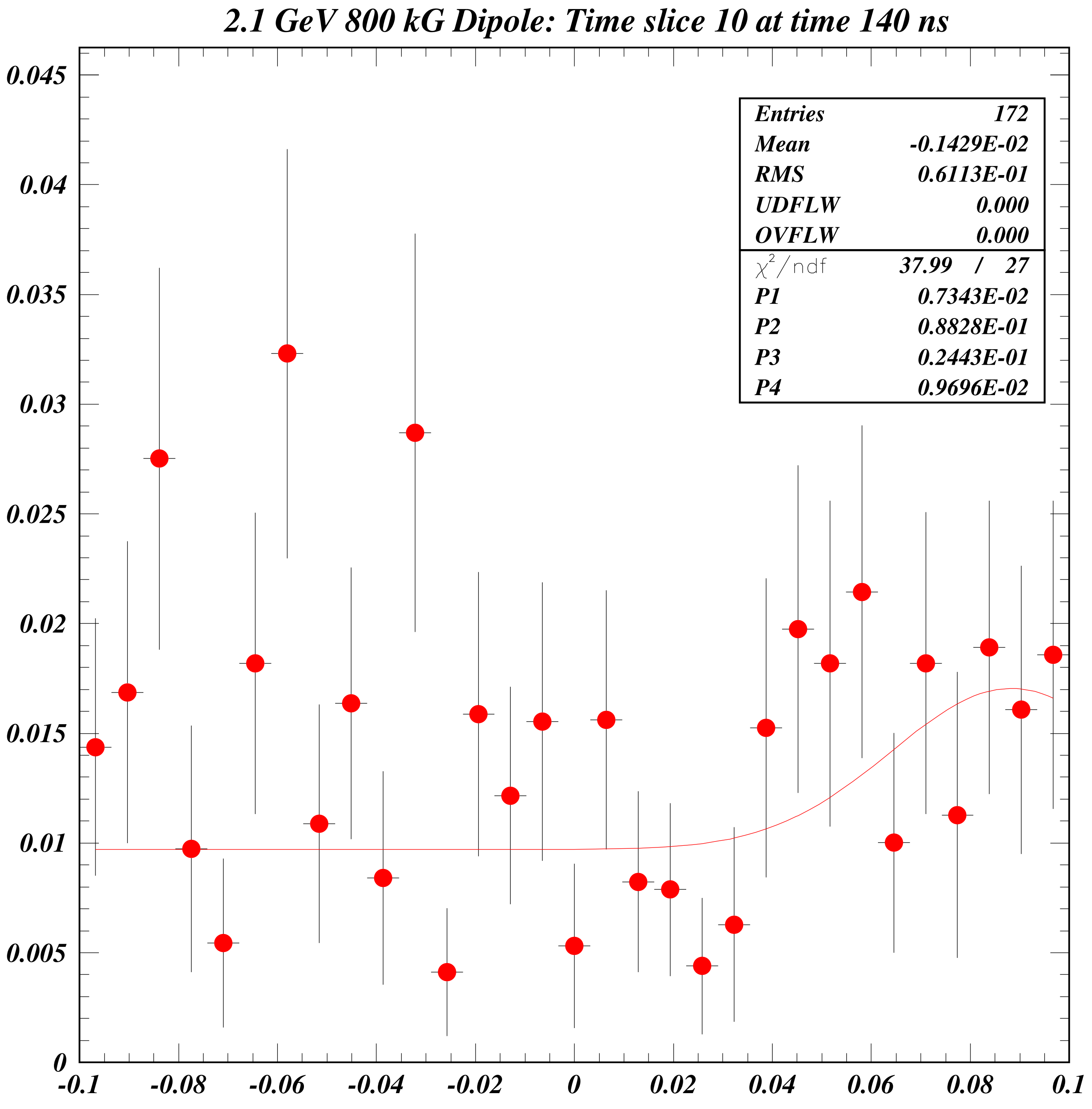


15/09/29 11.37



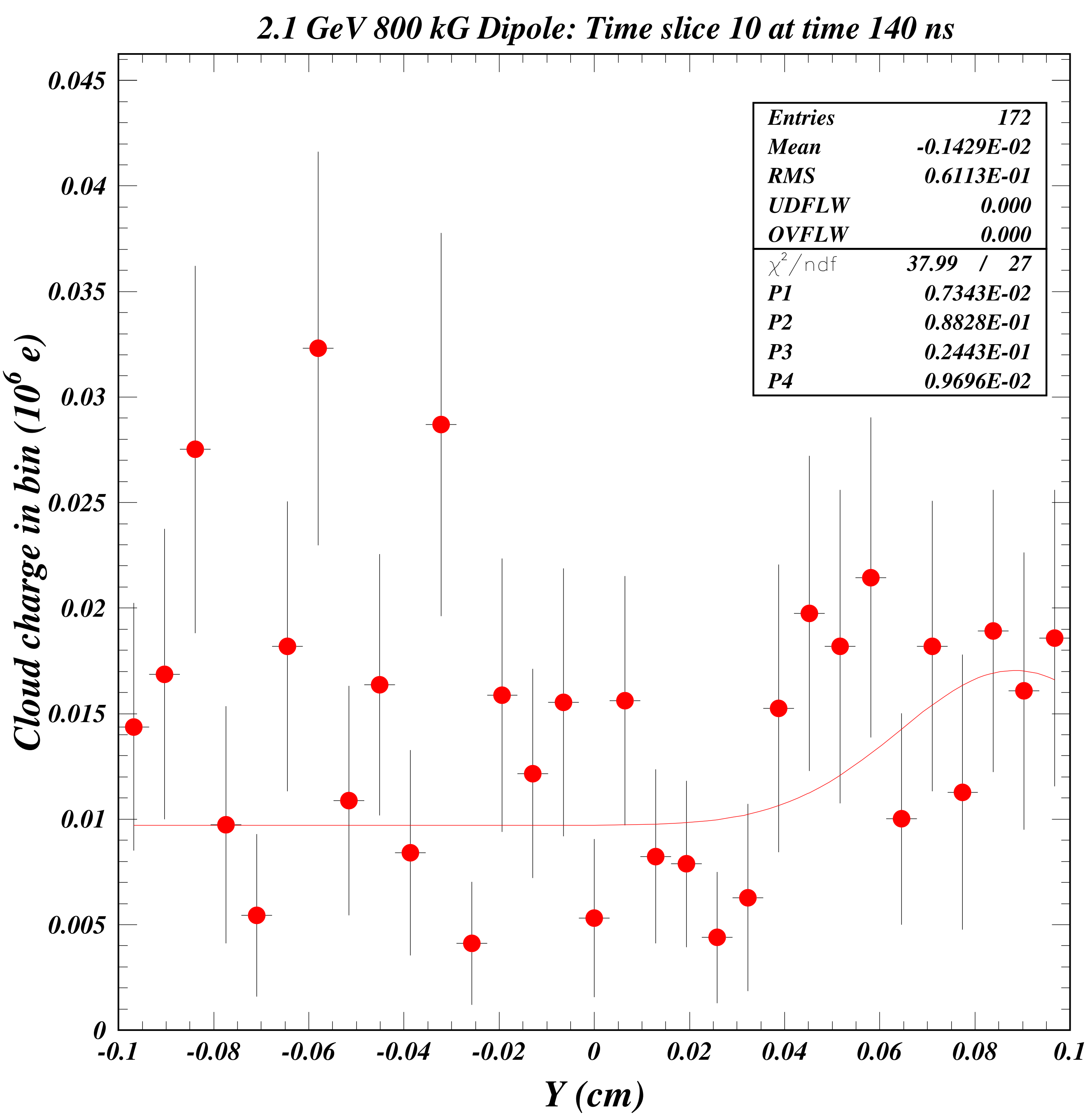
2.1 GeV 800 kG Dipole: Time slice 10 at time 140 ns
Entries 172
Mean -0.1481E-02
RMS 0.5567E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 30.16 / 27
P1 10.39
P2 0.1246E-01
P3 3.348
P4 -10.37
Cloud charge in bin (10⁶ e)
X (cm)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.37



2.1 GeV 800 kG Dipole: Time slice 10 at time 140 ns
Entries 172
Mean -0.1429E-02
RMS 0.6113E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.99 / 27
P1 0.7343E-02
P2 0.8828E-01
P3 0.2443E-01
P4 0.9696E-02
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

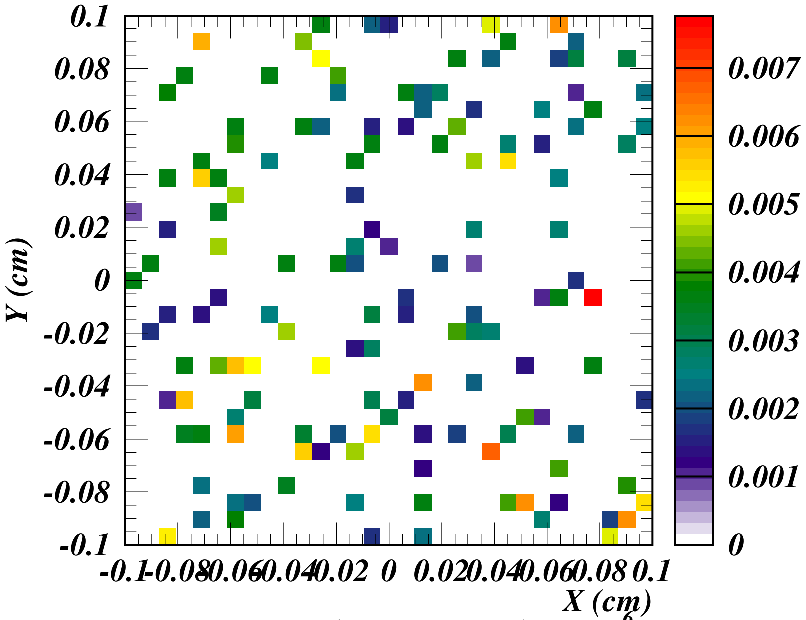
15/09/29 11.37



2.1 GeV 800 kG Dipole: Time slice 10 at time 140 ns
Entries 172
Mean -0.1429E-02
RMS 0.6113E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.99 / 27
P1 0.7343E-02
P2 0.8828E-01
P3 0.2443E-01
P4 0.9696E-02
Cloud charge in bin (10⁶ e)
Y (cm)
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

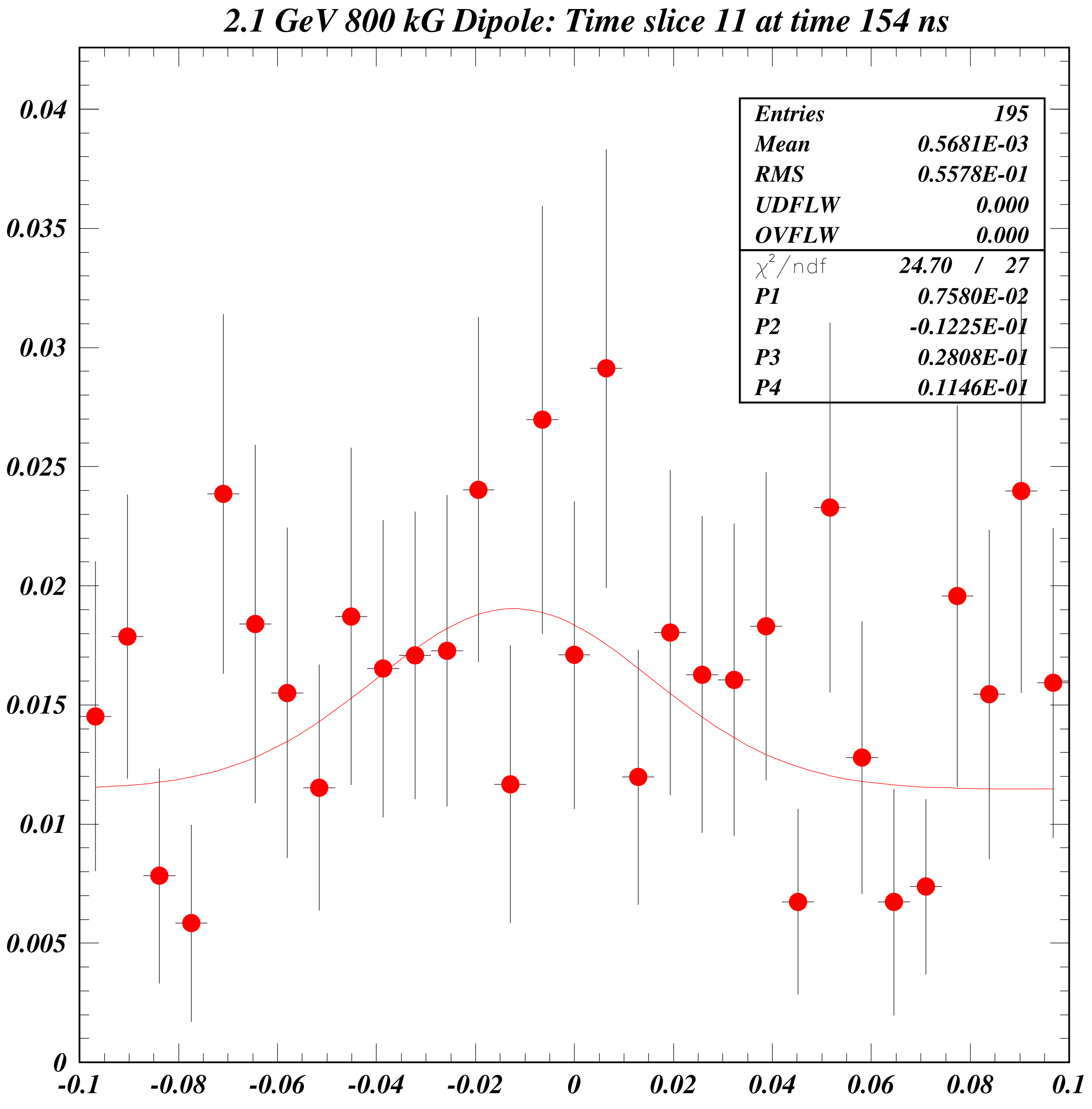
15/09/29 11.37

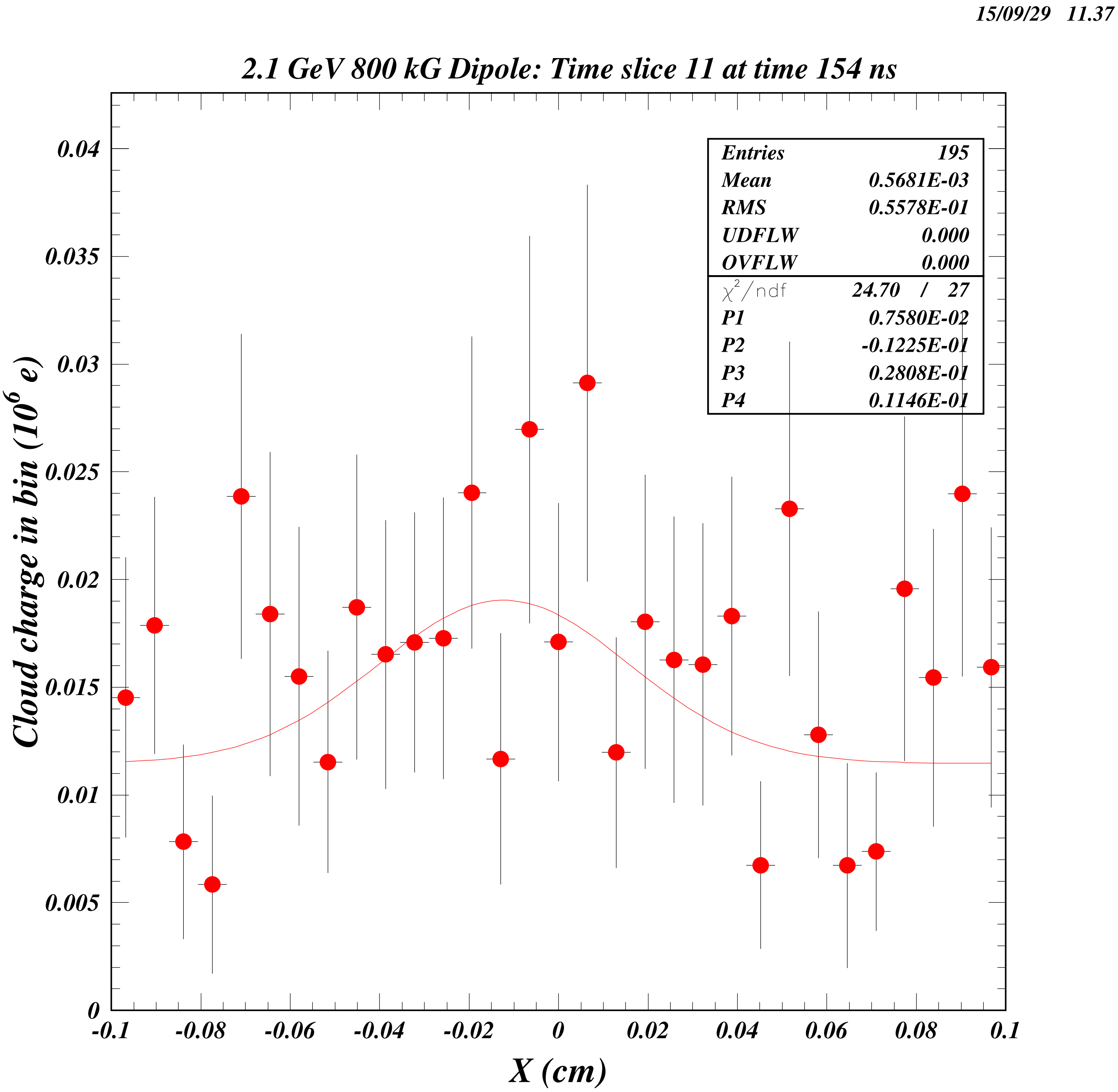
Snapshot after bunch 10 at time = 140 ns

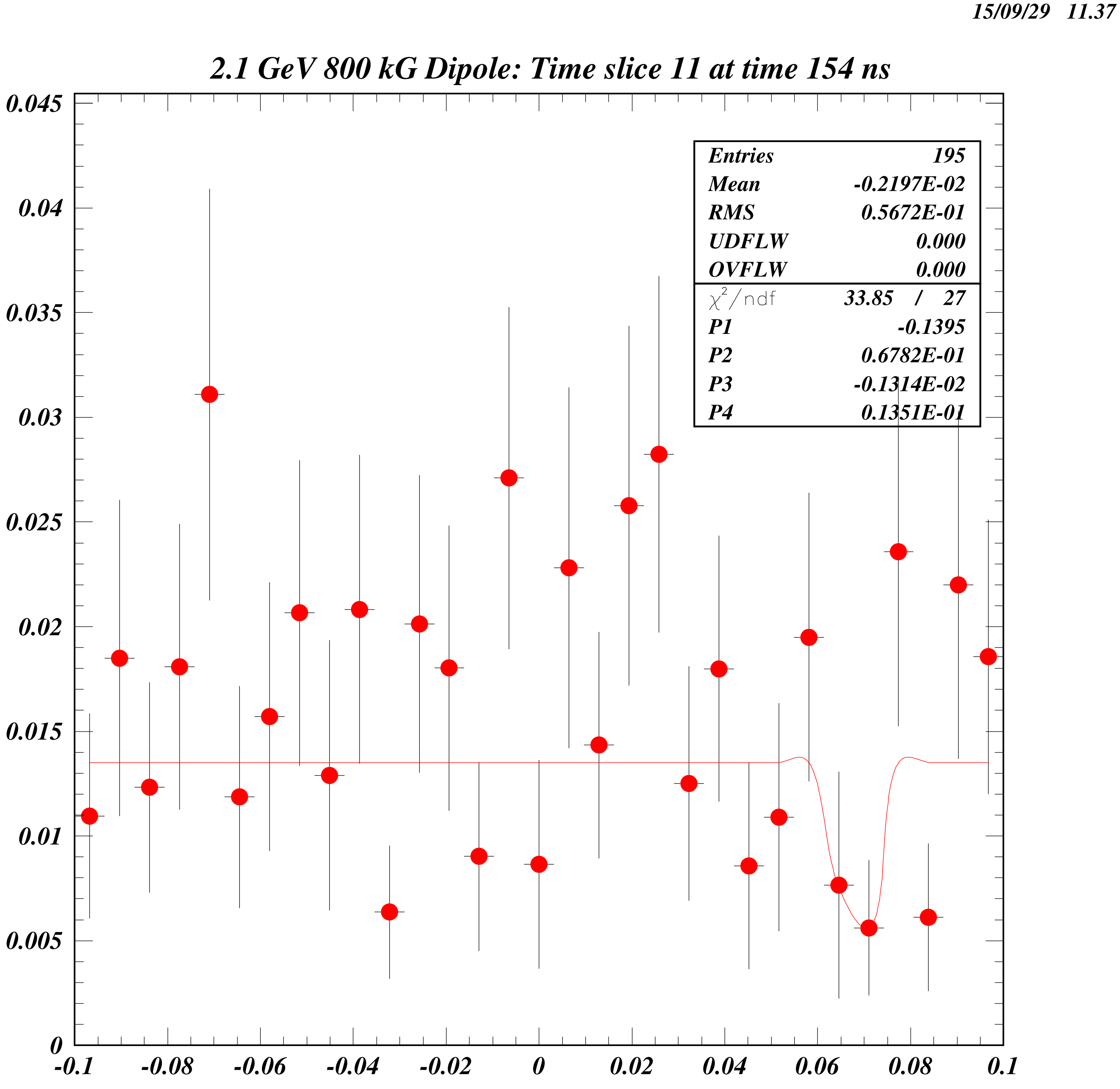


No energy cut: 0k macroparticles, 0 10^{6} e-

15/09/29 11.37

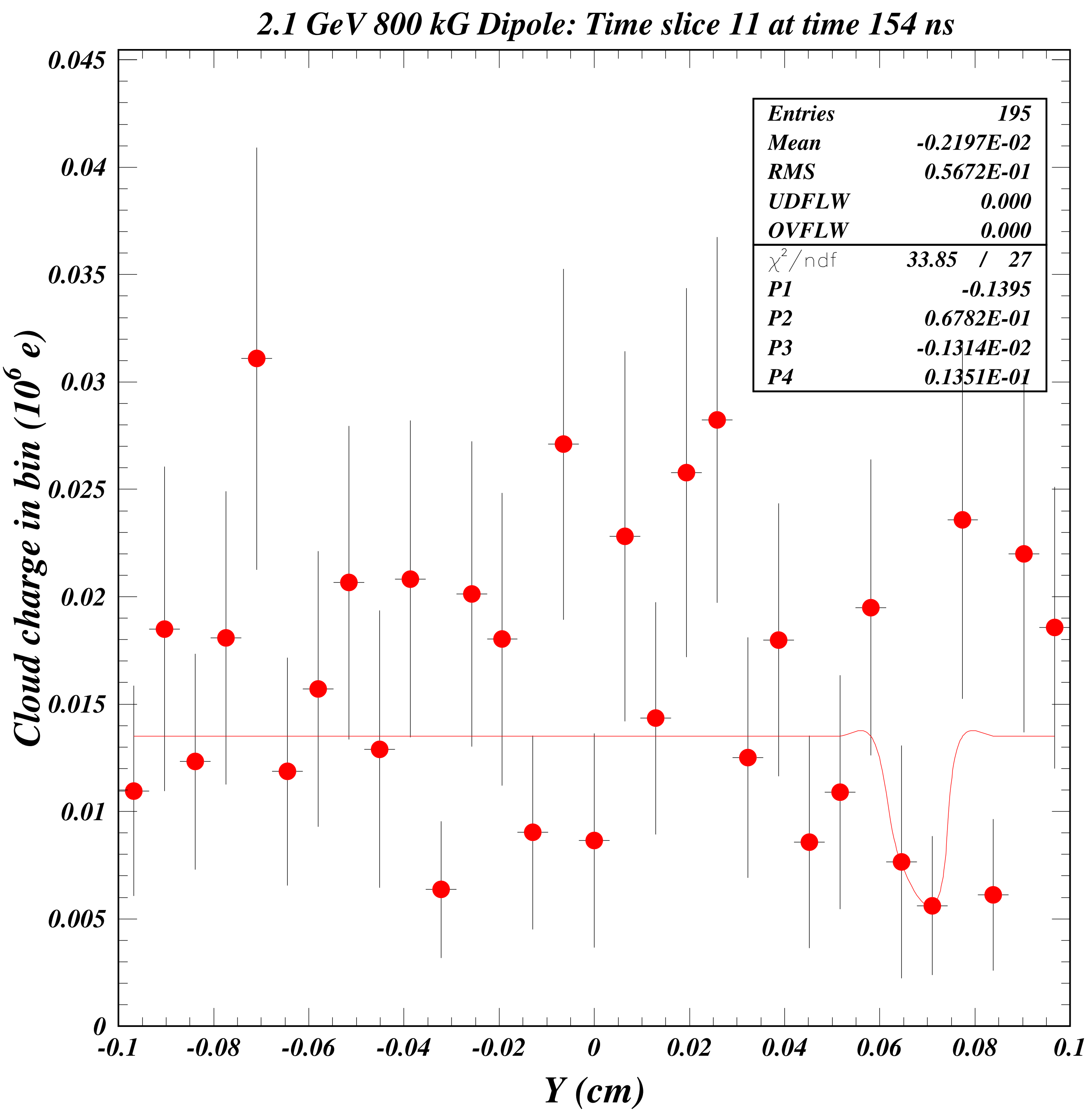

2.1 GeV 800 kG Dipole: Time slice 11 at time 154 ns
Entries 195
Mean 0.5681E-03
RMS 0.5578E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 24.70 / 27
P1 0.7580E-02
P2 -0.1225E-01
P3 0.2808E-01
P4 0.1146E-01
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 11 at time 154 ns
Entries 195
Mean 0.5681E-03
RMS 0.5578E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 24.70 / 27
P1 0.7580E-02
P2 -0.1225E-01
P3 0.2808E-01
P4 0.1146E-01
Cloud charge in bin (10⁶ e)
X (cm)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

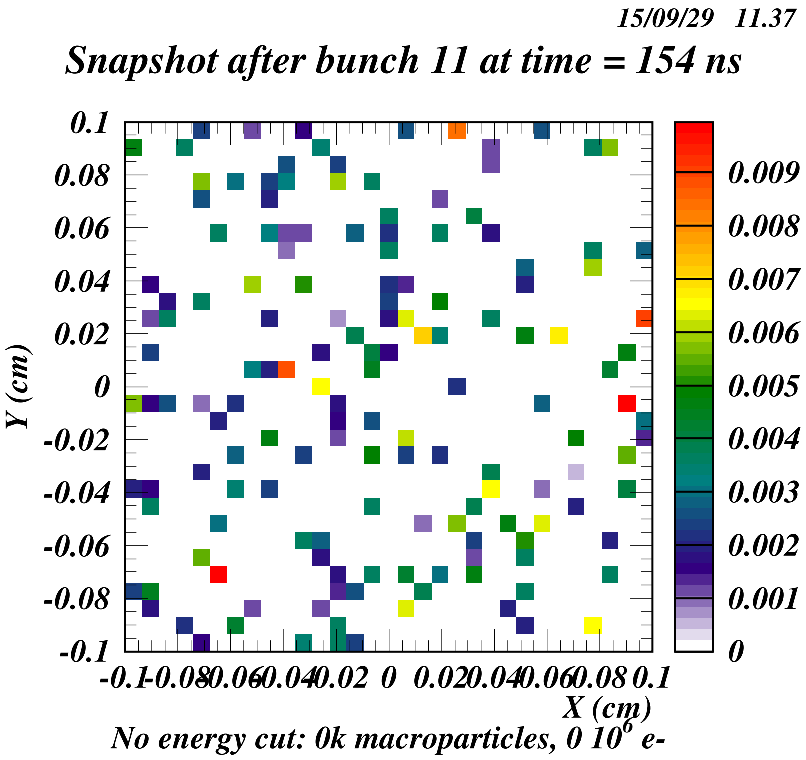


15/09/29 11.37
2.1 GeV 800 kG Dipole: Time slice 11 at time 154 ns
Entries 195
Mean -0.2197E-02
RMS 0.5672E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 33.85 / 27
P1 -0.1395
P2 0.6782E-01
P3 -0.1314E-02
P4 0.1351E-01
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29   11.37

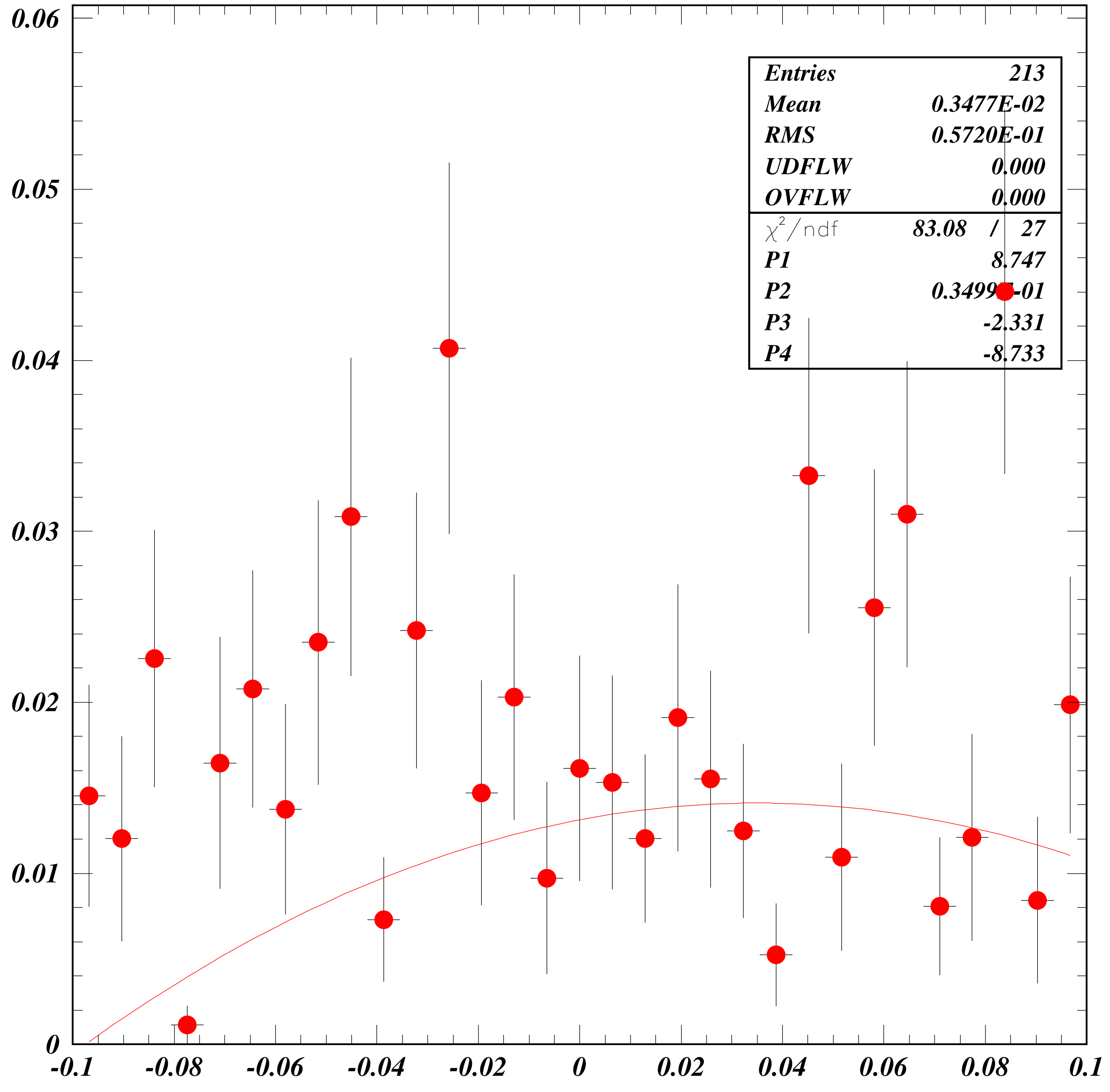


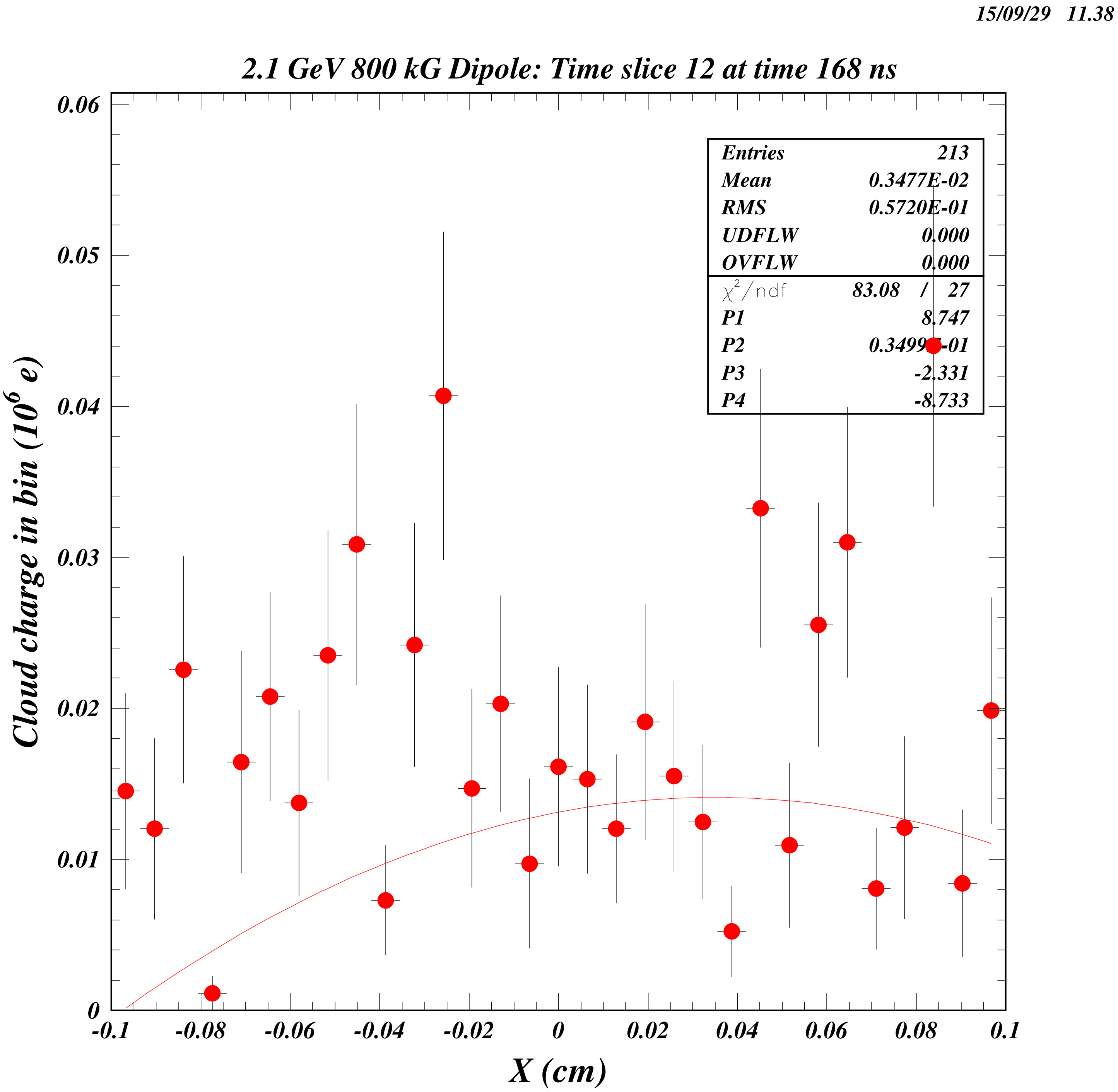
2.1 GeV 800 kG Dipole: Time slice 11 at time 154 ns
Entries 195
Mean -0.2197E-02
RMS 0.5672E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 33.85 / 27
P1 -0.1395
P2 0.6782E-01
P3 -0.1314E-02
P4 0.1351E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

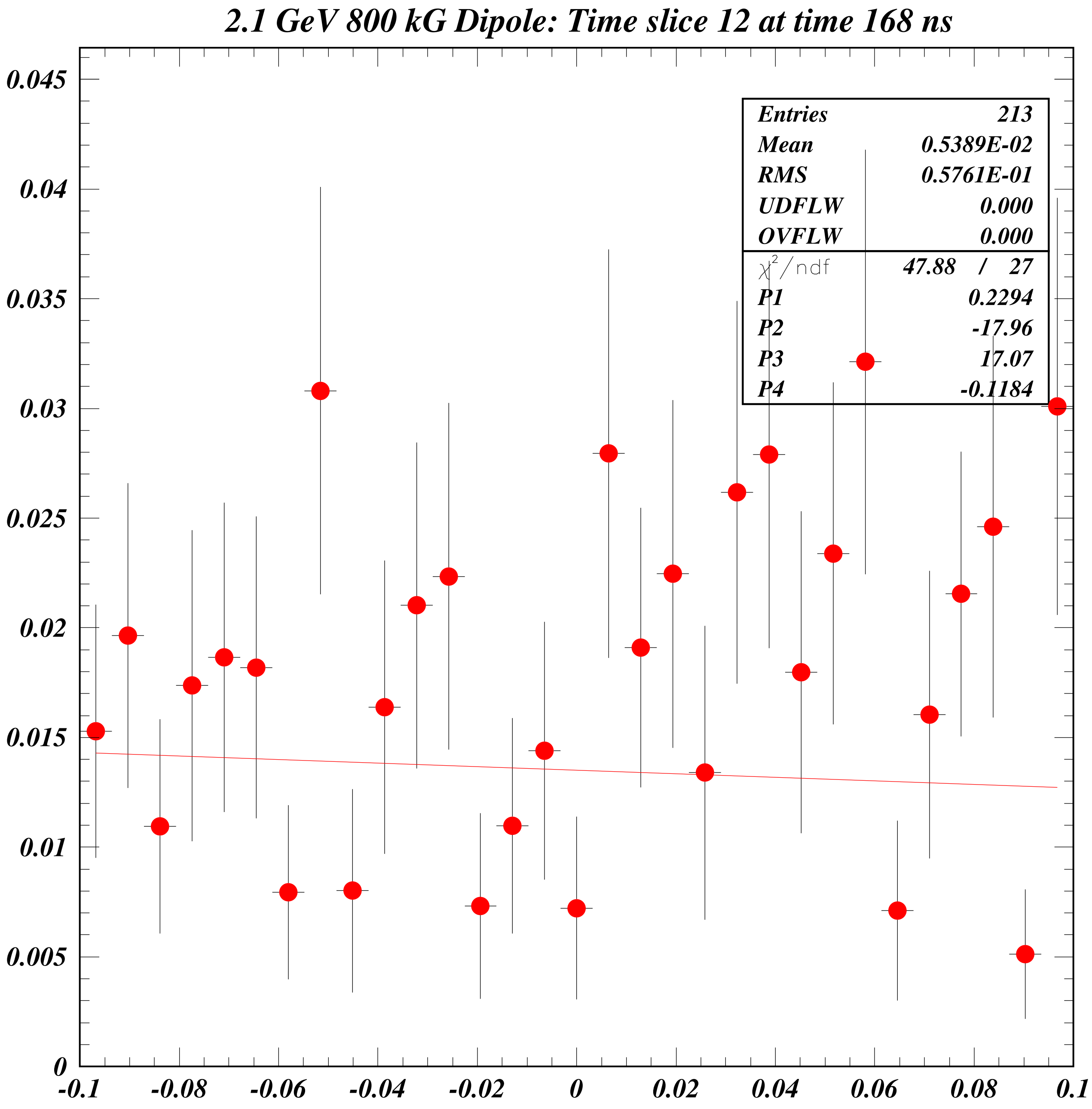

15/09/29 11.37
Snapshot after bunch 11 at time = 154 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.38

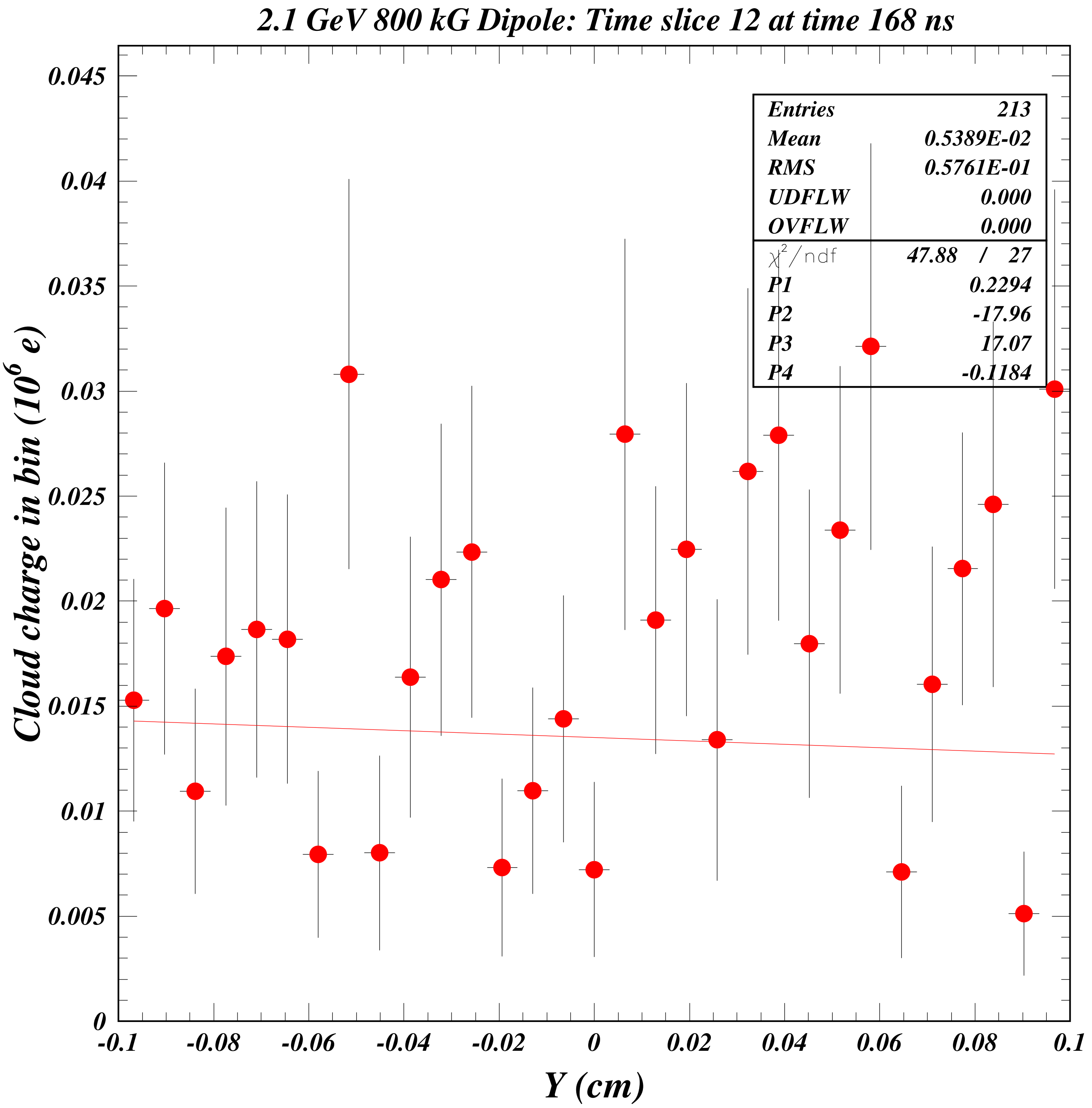
2.1 GeV 800 kG Dipole: Time slice 12 at time 168 ns

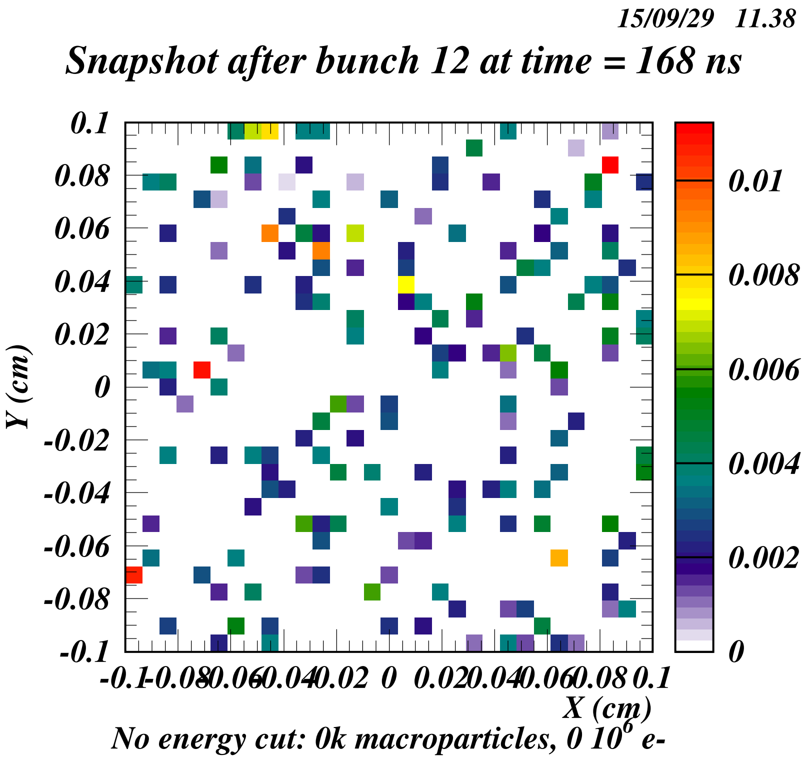



15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 12 at time 168 ns
Entries 213
Mean 0.3477E-02
RMS 0.5720E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 83.08 / 27
P1 8.747
P2 0.3499E-01
P3 -2.331
P4 -8.733
Cloud charge in bin (10⁶ e)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
X (cm)


2.1 GeV 800 kG Dipole: Time slice 12 at time 168 ns
Entries 213
Mean 0.5389E-02
RMS 0.5761E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 47.88 / 27
P1 0.2294
P2 -17.96
P3 17.07
P4 -0.1184
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

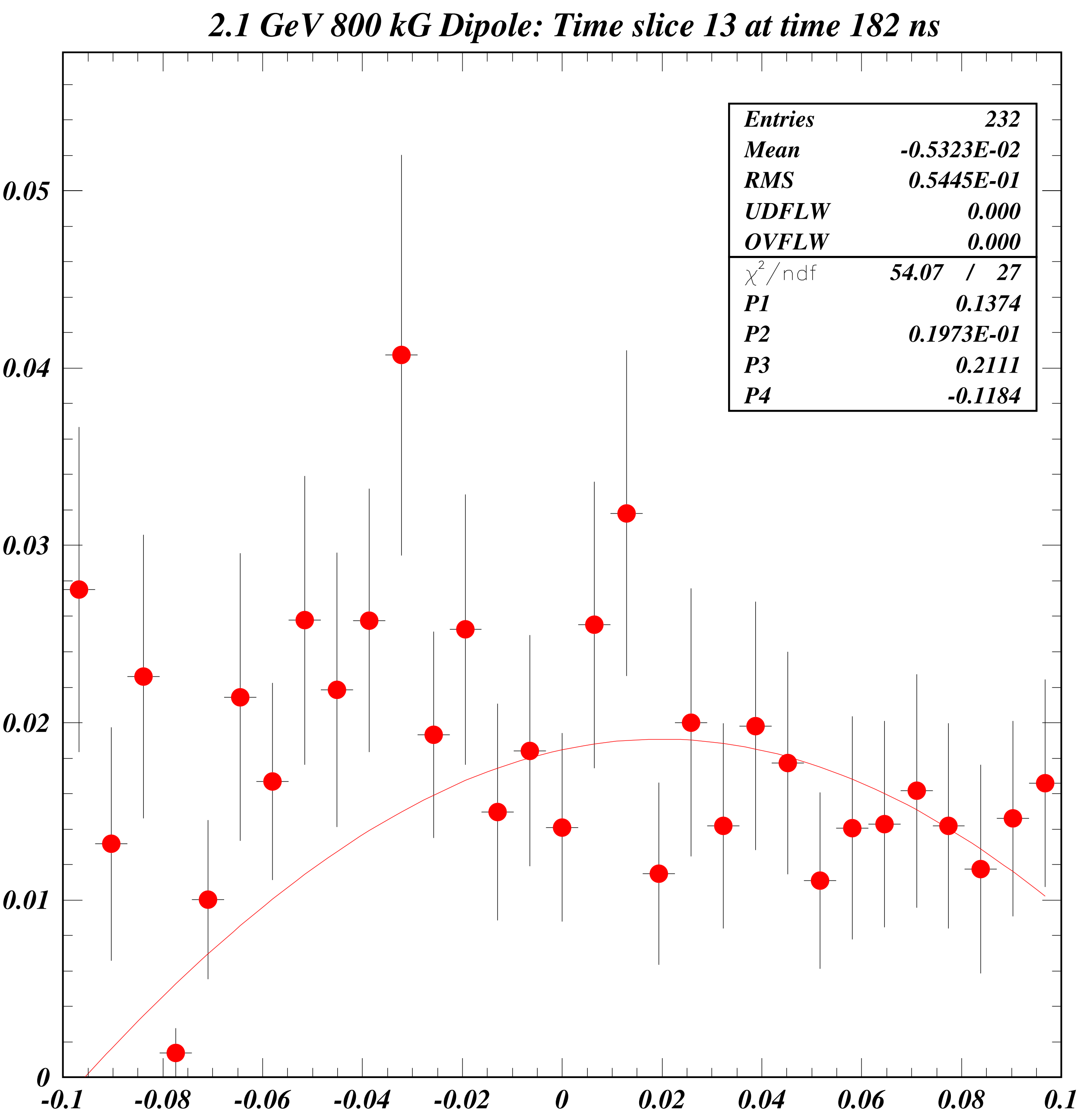
15/09/29 11.38


2.1 GeV 800 kG Dipole: Time slice 12 at time 168 ns
Entries 213
Mean 0.5389E-02
RMS 0.5761E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 47.88 / 27
P1 0.2294
P2 -17.96
P3 17.07
P4 -0.1184
Cloud charge in bin (10⁶ e)
Y (cm)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

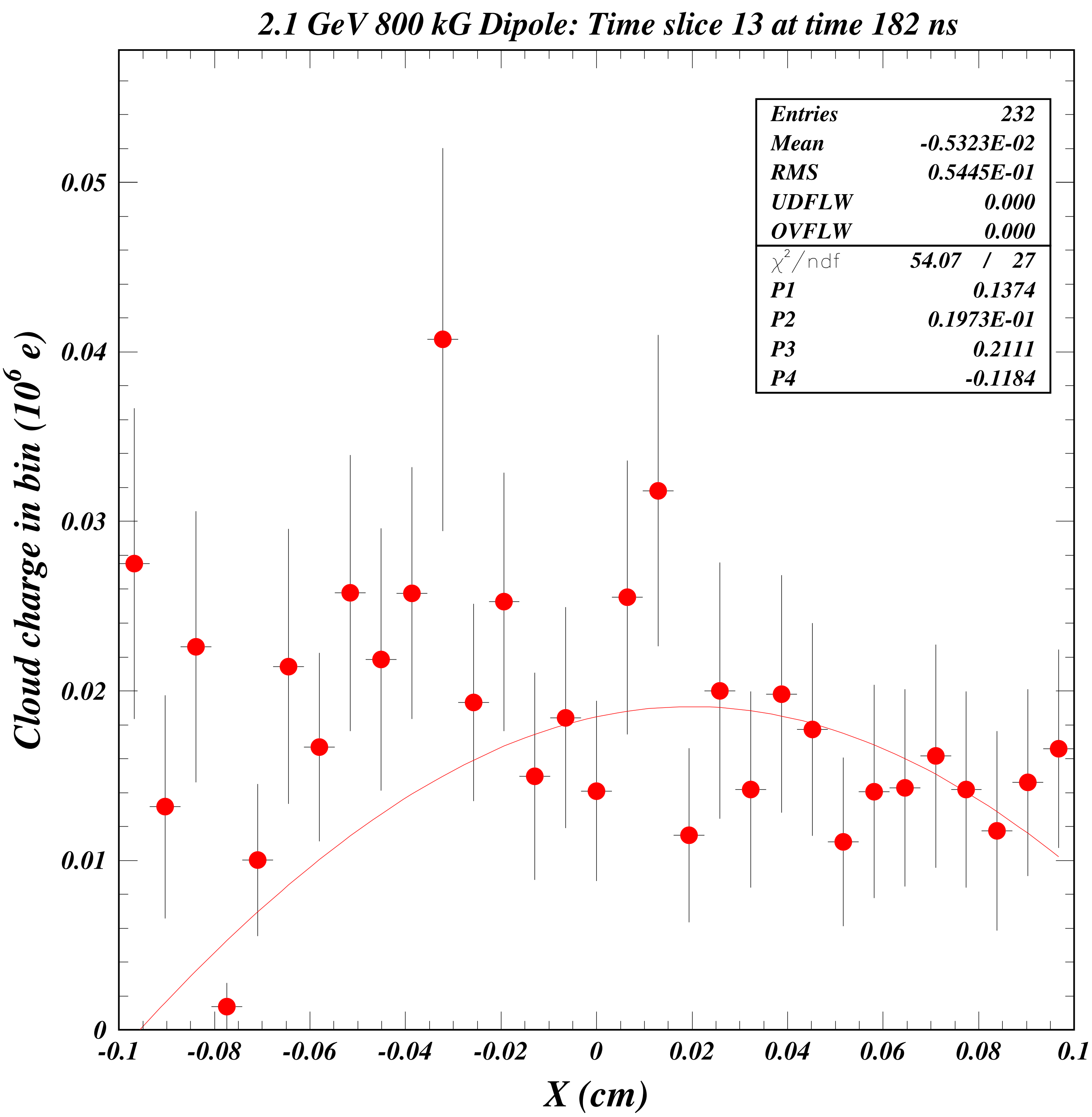


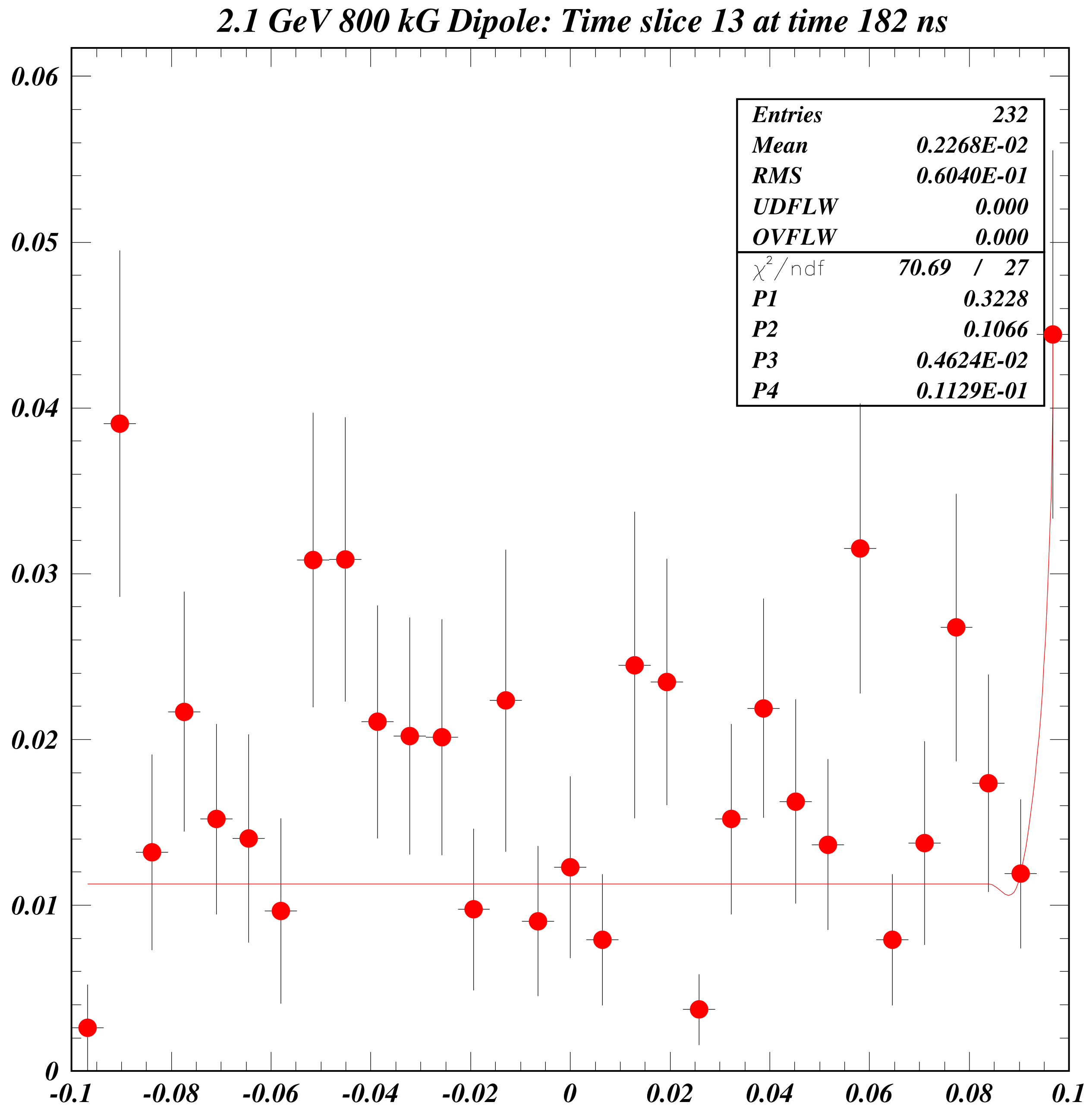
15/09/29 11.38
Snapshot after bunch 12 at time = 168 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.38

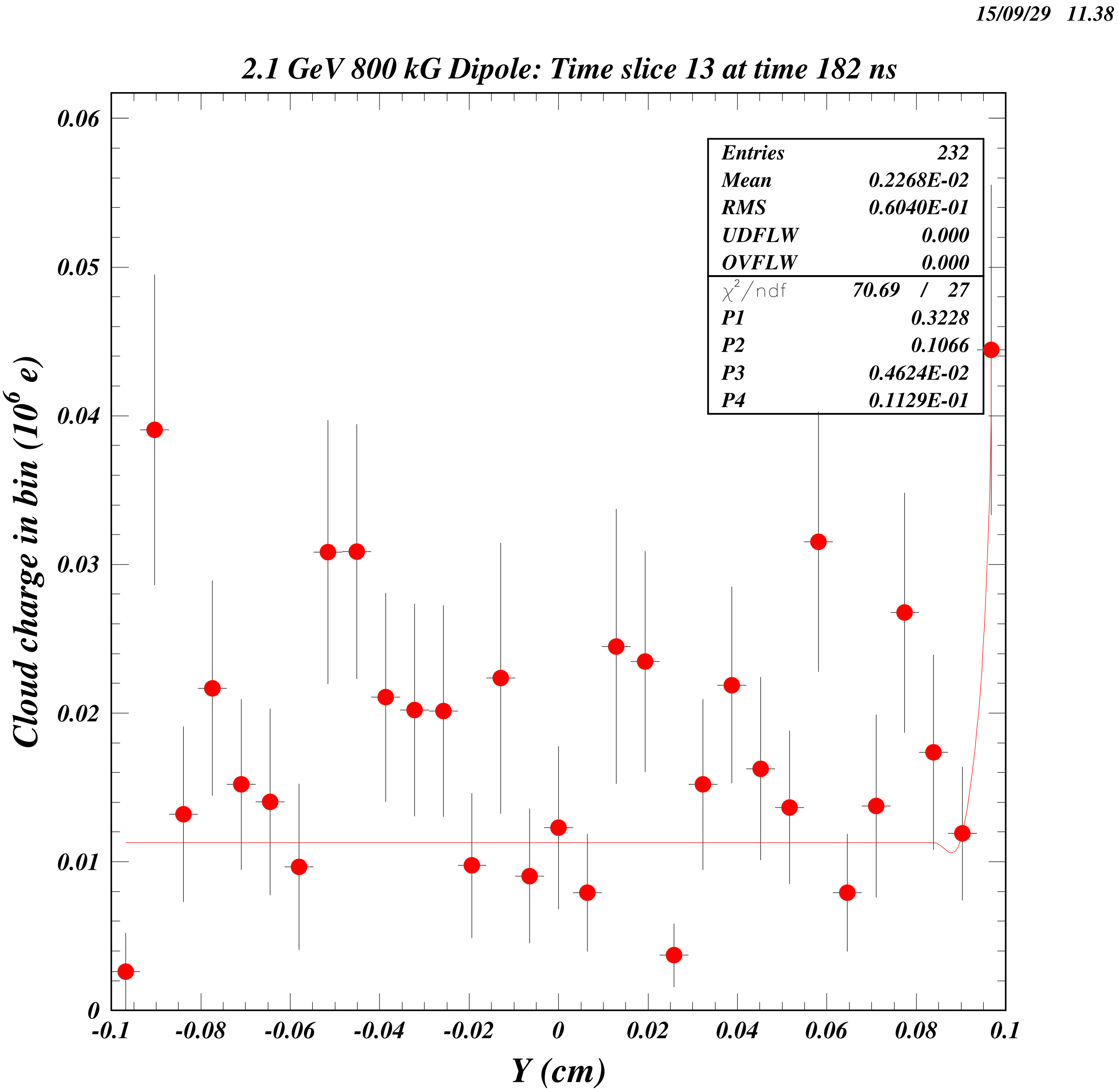

2.1 GeV 800 kG Dipole: Time slice 13 at time 182 ns
Entries 232
Mean -0.5323E-02
RMS 0.5445E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 54.07 / 27
P1 0.1374
P2 0.1973E-01
P3 0.2111
P4 -0.1184
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

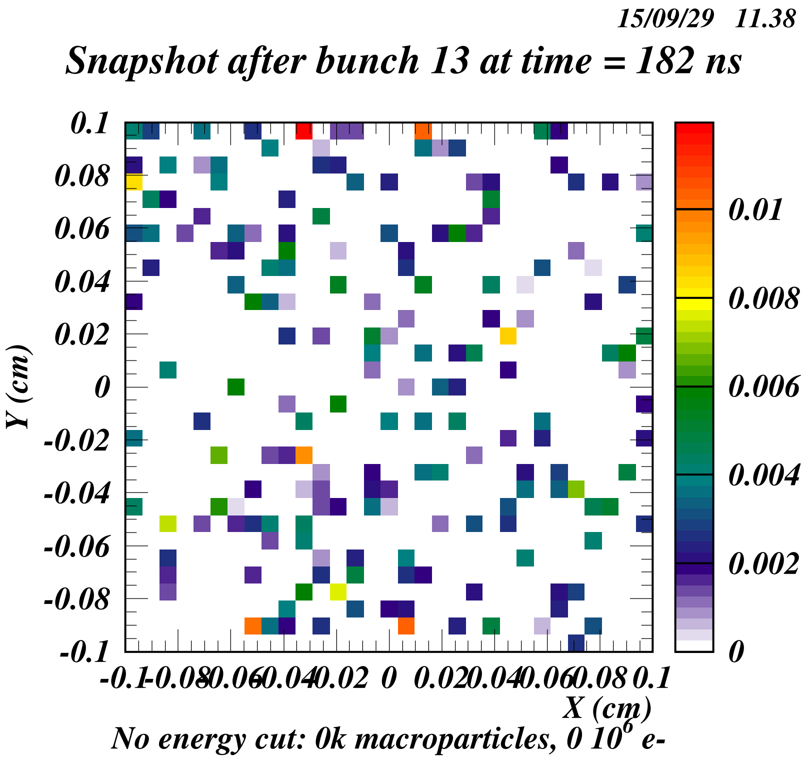

2.1 GeV 800 kG Dipole: Time slice 13 at time 182 ns
Entries 232
Mean -0.5323E-02
RMS 0.5445E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 54.07 / 27
P1 0.1374
P2 0.1973E-01
P3 0.2111
P4 -0.1184
Cloud charge in bin (10⁶ e)
X (cm)
0
0.01
0.02
0.03
0.04
0.05
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



2.1 GeV 800 kG Dipole: Time slice 13 at time 182 ns
Entries 232
Mean 0.2268E-02
RMS 0.6040E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 70.69 / 27
P1 0.3228
P2 0.1066
P3 0.4624E-02
P4 0.1129E-01
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

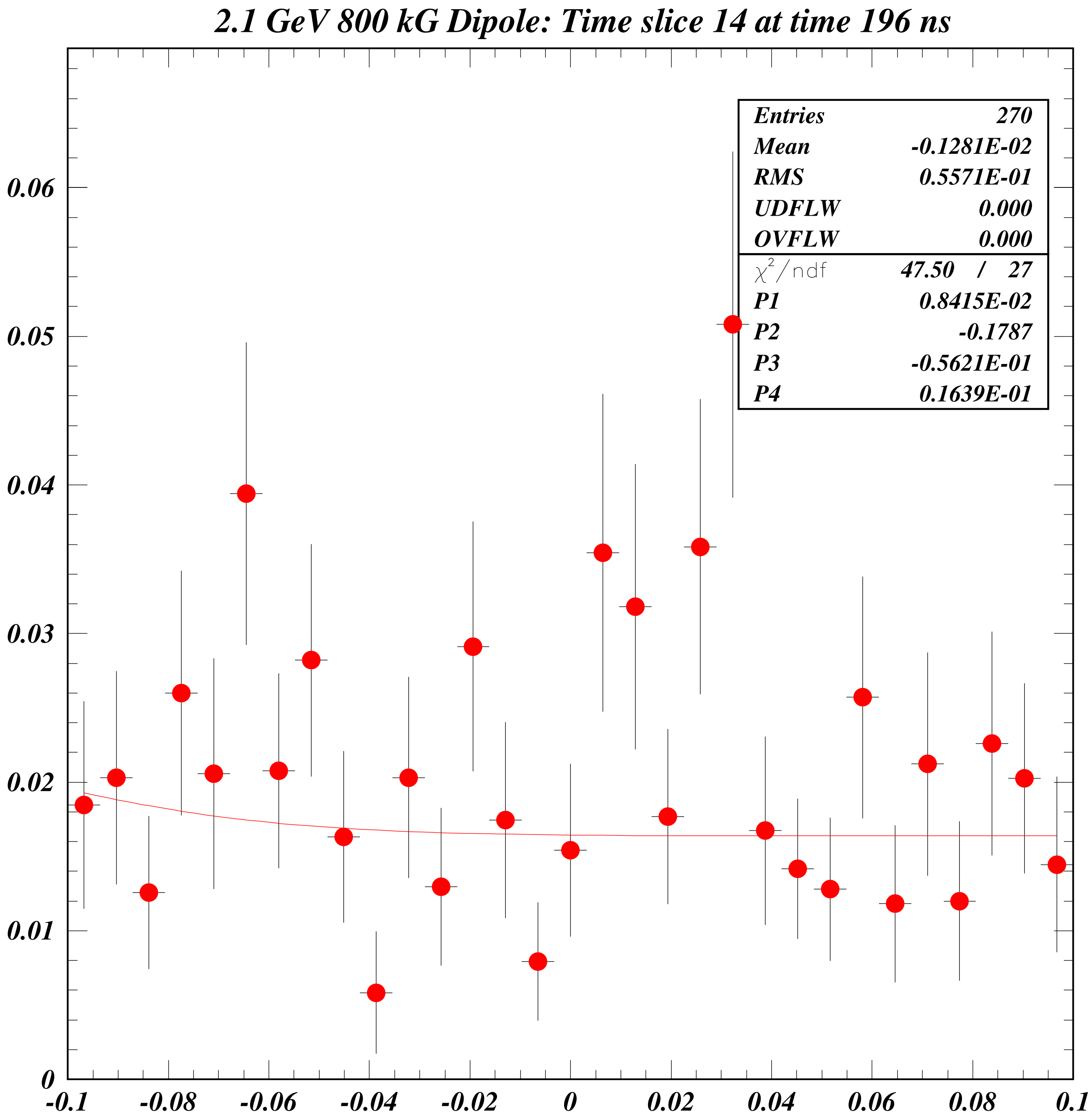


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 13 at time 182 ns
Entries 232
Mean 0.2268E-02
RMS 0.6040E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 70.69 / 27
P1 0.3228
P2 0.1066
P3 0.4624E-02
P4 0.1129E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

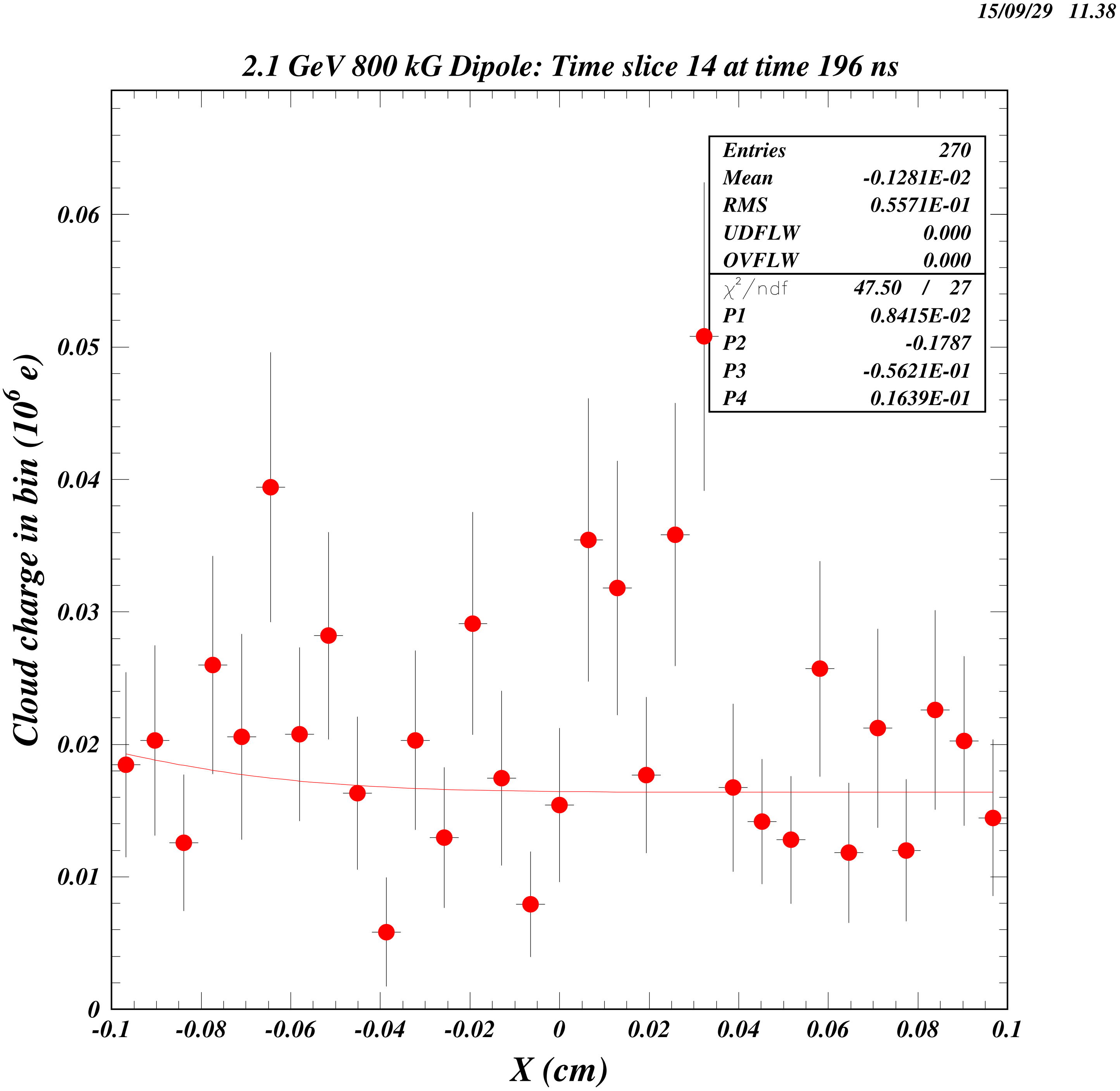


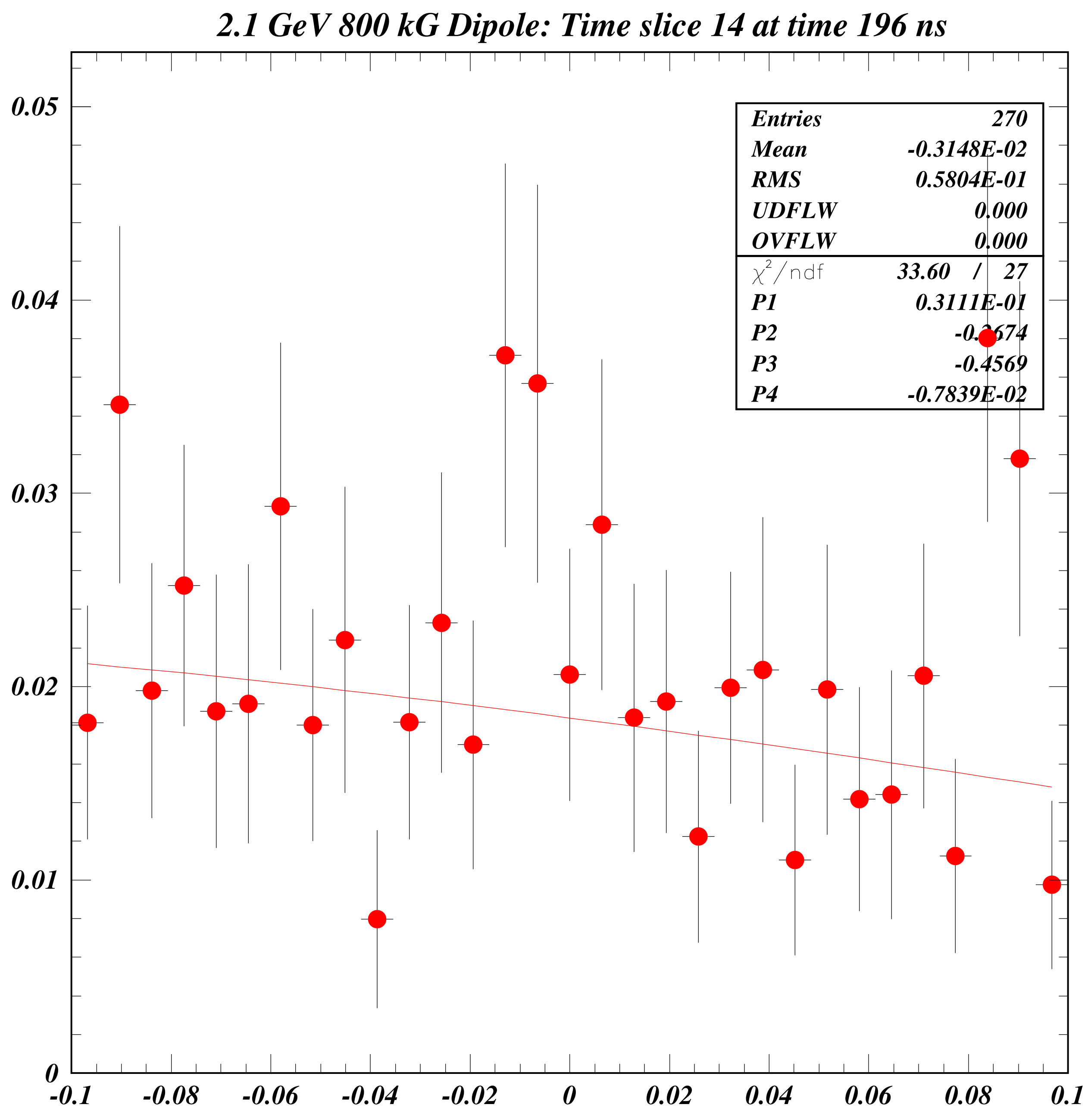
15/09/29 11.38
Snapshot after bunch 13 at time = 182 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 0 10^6 e-

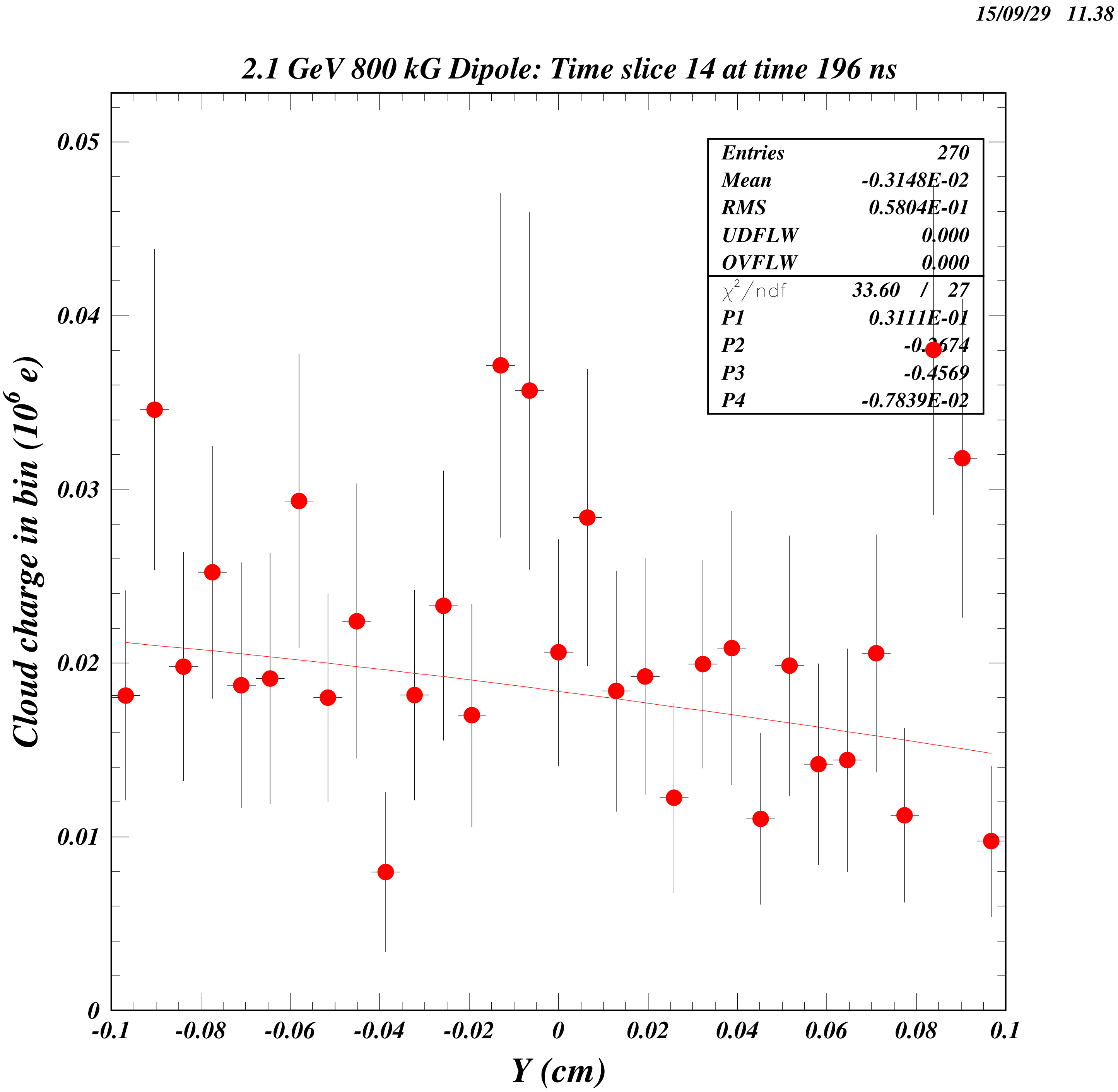
15/09/29 11.38



2.1 GeV 800 kG Dipole: Time slice 14 at time 196 ns
Entries 270
Mean -0.1281E-02
RMS 0.5571E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 47.50 / 27
P1 0.8415E-02
P2 -0.1787
P3 -0.5621E-01
P4 0.1639E-01
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

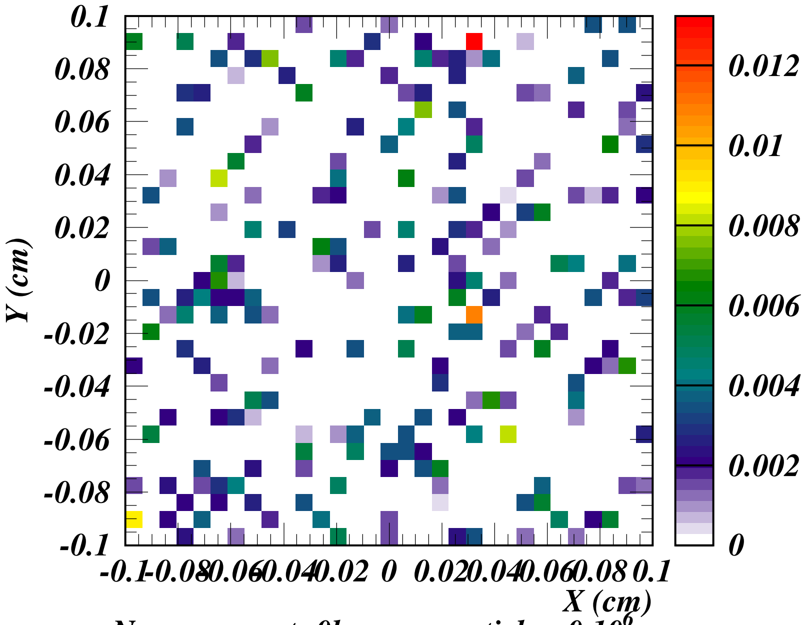

15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 14 at time 196 ns
Entries 270
Mean -0.1281E-02
RMS 0.5571E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 47.50 / 27
P1 0.8415E-02
P2 -0.1787
P3 -0.5621E-01
P4 0.1639E-01
Cloud charge in bin (10⁶ e)
X (cm)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


2.1 GeV 800 kG Dipole: Time slice 14 at time 196 ns
Entries 270
Mean -0.3148E-02
RMS 0.5804E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 33.60 / 27
P1 0.3111E-01
P2 -0.2674
P3 -0.4569
P4 -0.7839E-02
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 14 at time 196 ns
Entries 270
Mean -0.3148E-02
RMS 0.5804E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 33.60 / 27
P1 0.3111E-01
P4 -0.7839E-02
P3 -0.4569
Cloud charge in bin (10^6 e)
Y (cm)
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

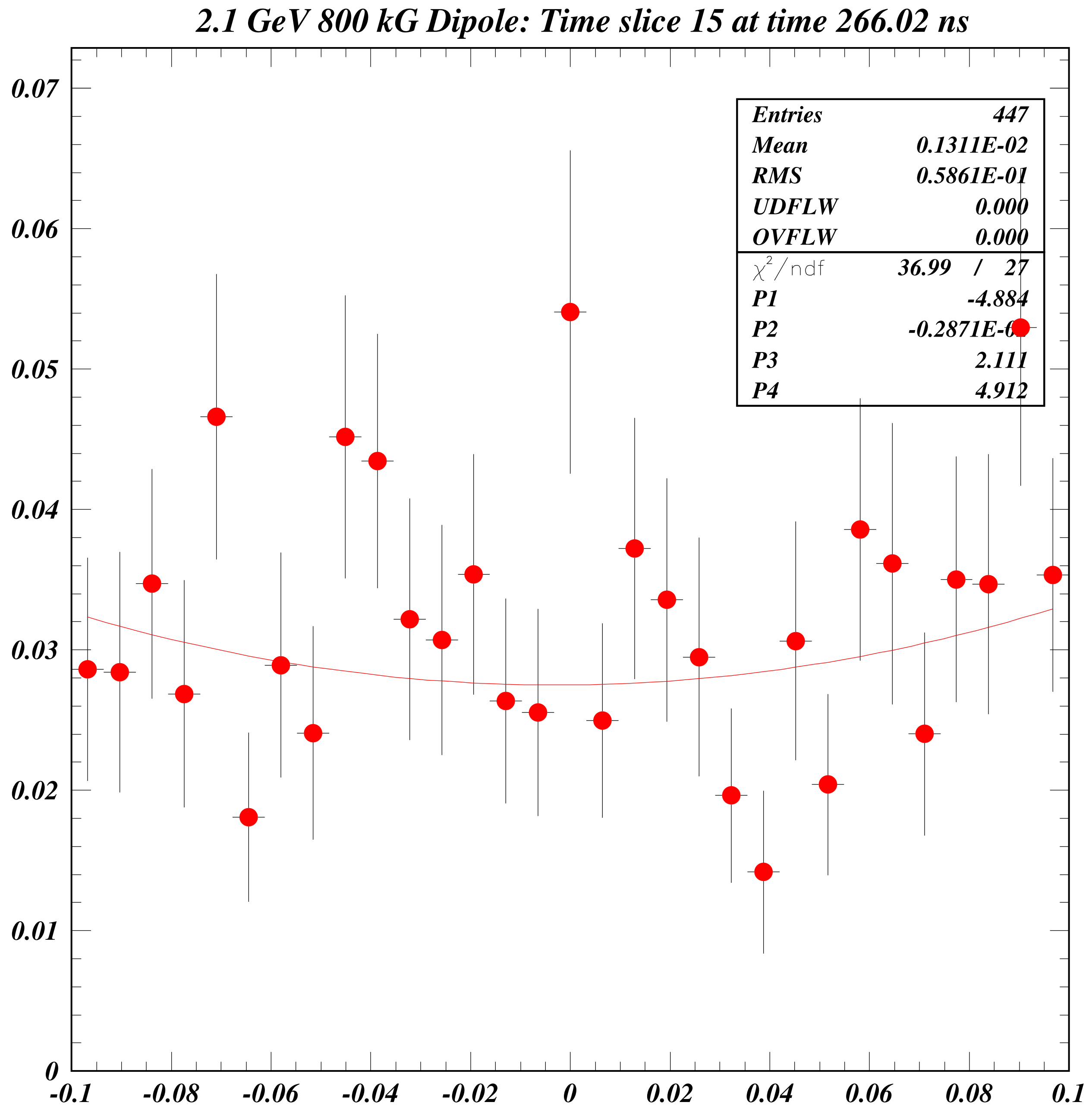
15/09/29 11.38

Snapshot after bunch 14 at time = 196 ns



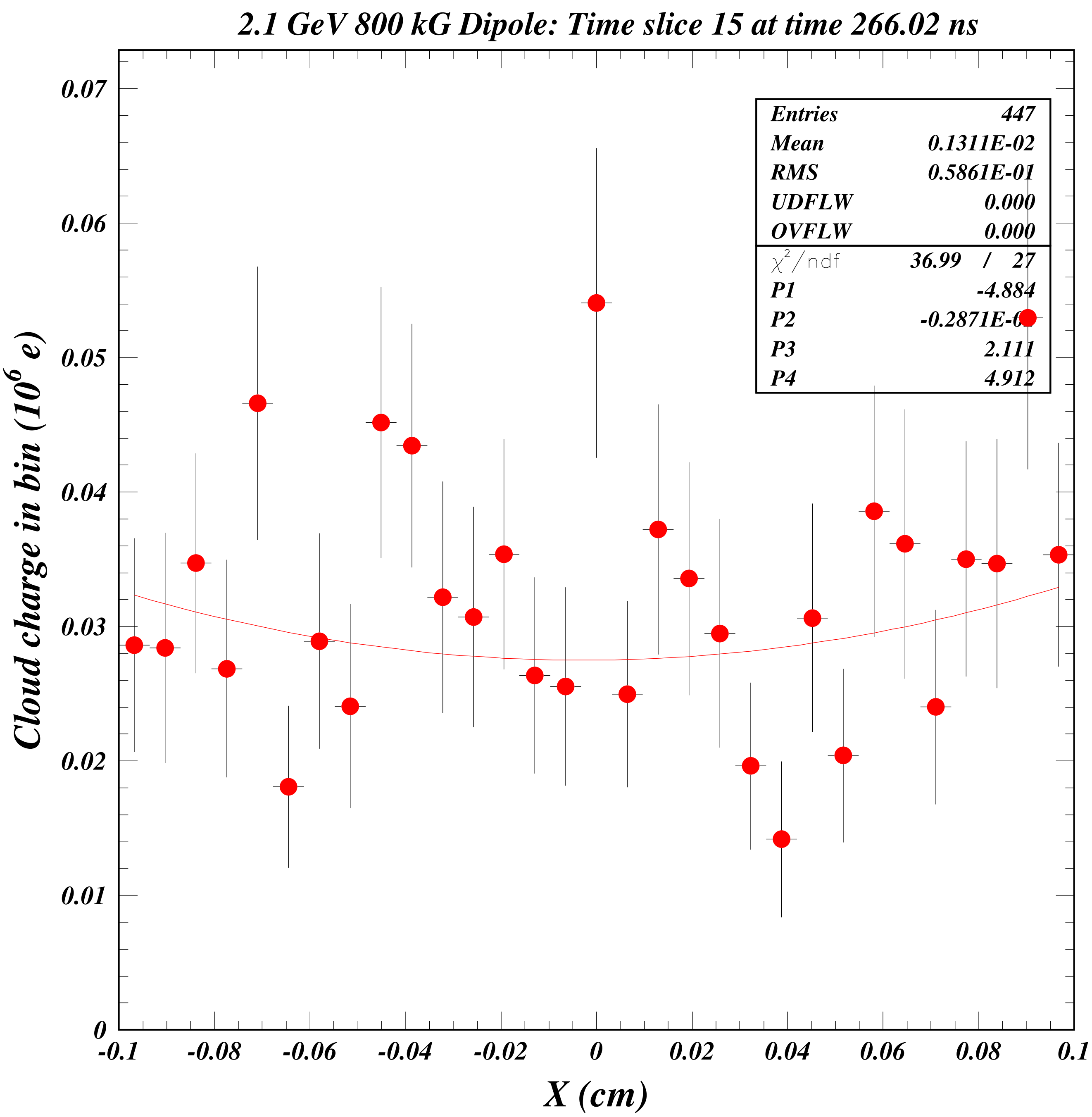
No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.38

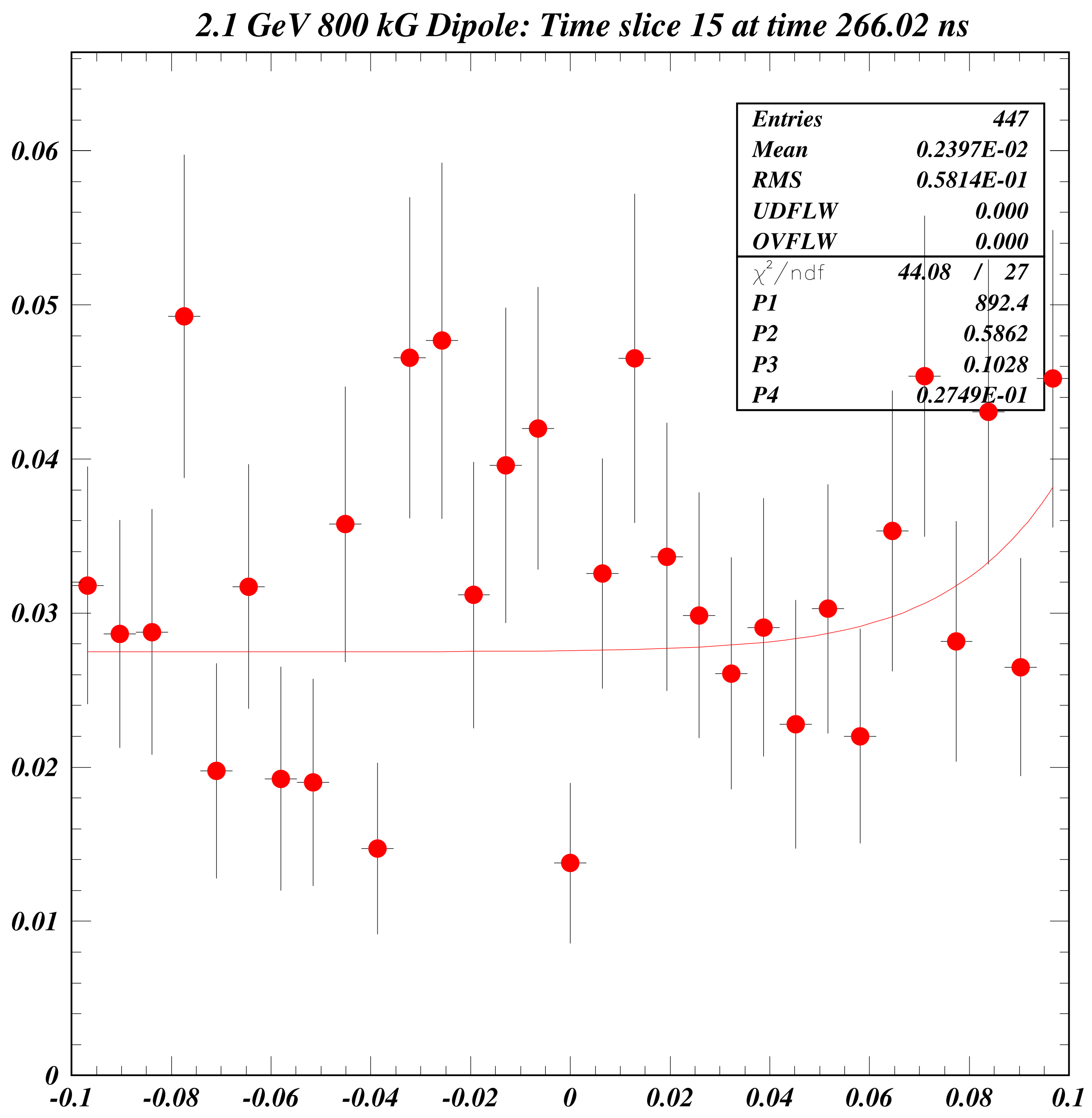


2.1 GeV 800 kG Dipole: Time slice 15 at time 266.02 ns
Entries 447
Mean 0.1311E-02
RMS 0.5861E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 36.99 / 27
P1 -4.884
P2 -0.2871E-01
P3 2.111
P4 4.912
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

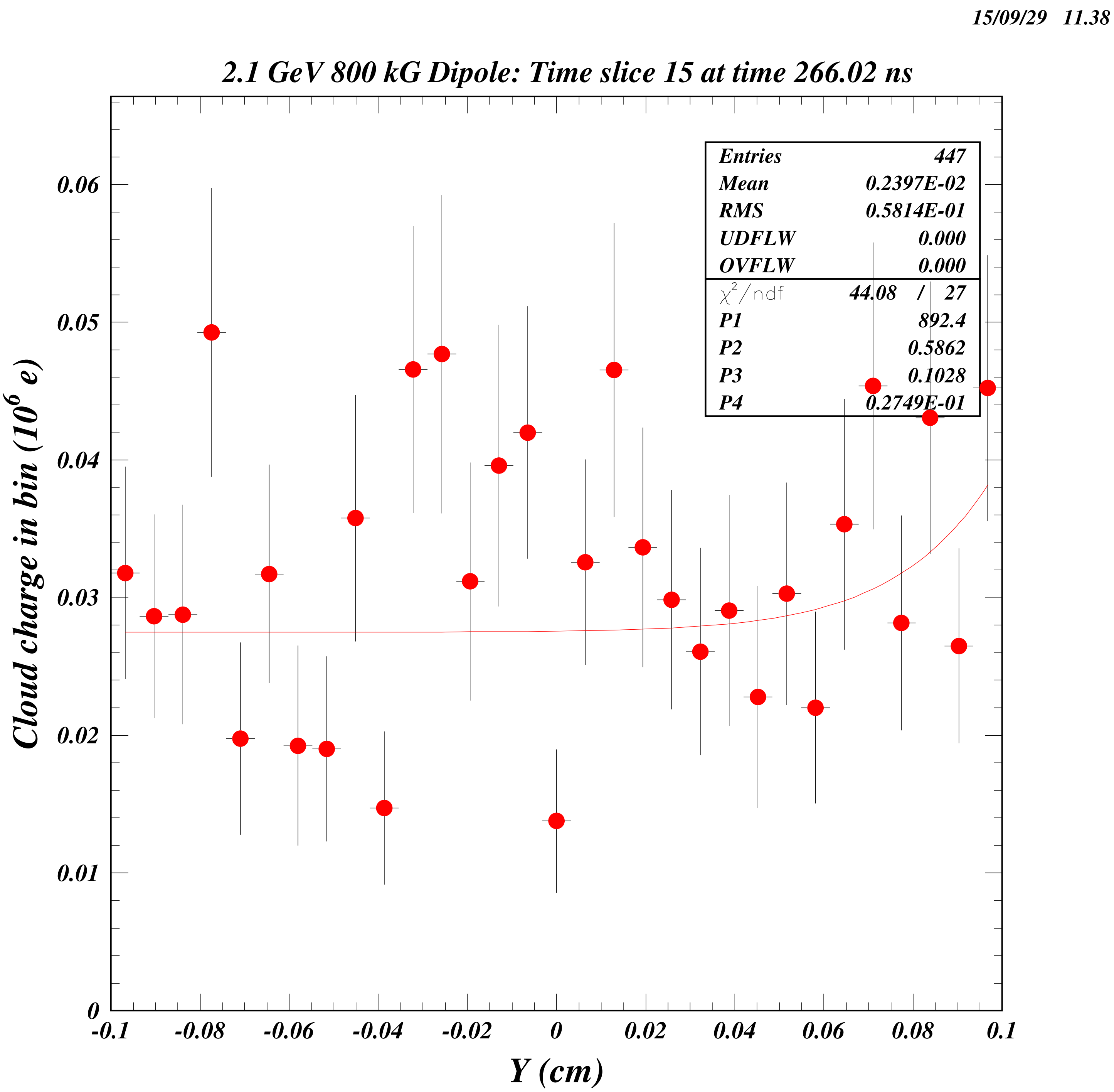
15/09/29 11.38

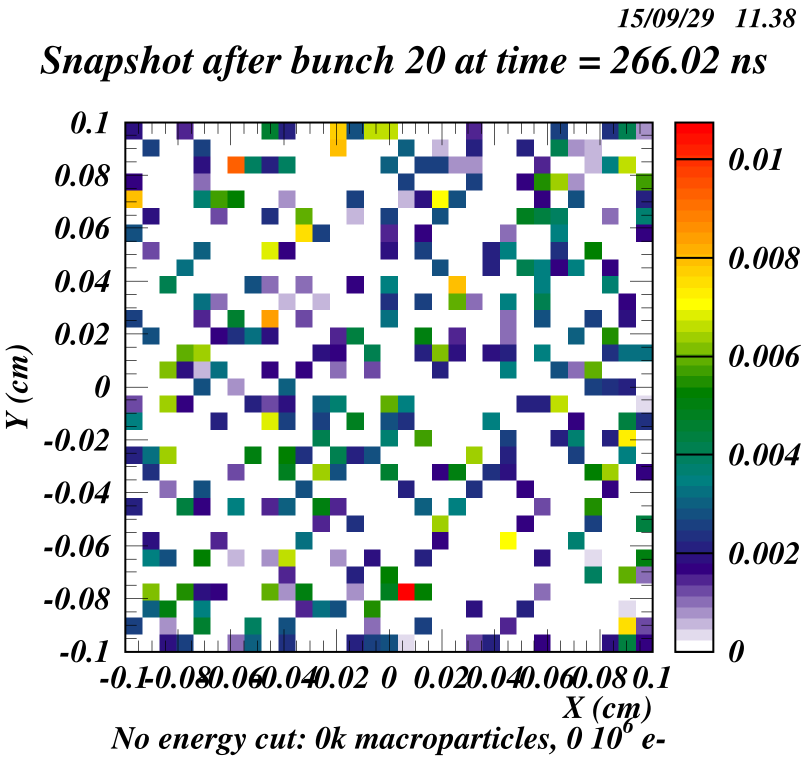

2.1 GeV 800 kG Dipole: Time slice 15 at time 266.02 ns
Entries 447
Mean 0.1311E-02
RMS 0.5861E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 36.99 / 27
P1 -4.884
P2 -0.2871E-01
P3 2.111
P4 4.912
Cloud charge in bin (10⁶ e)
X (cm)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38



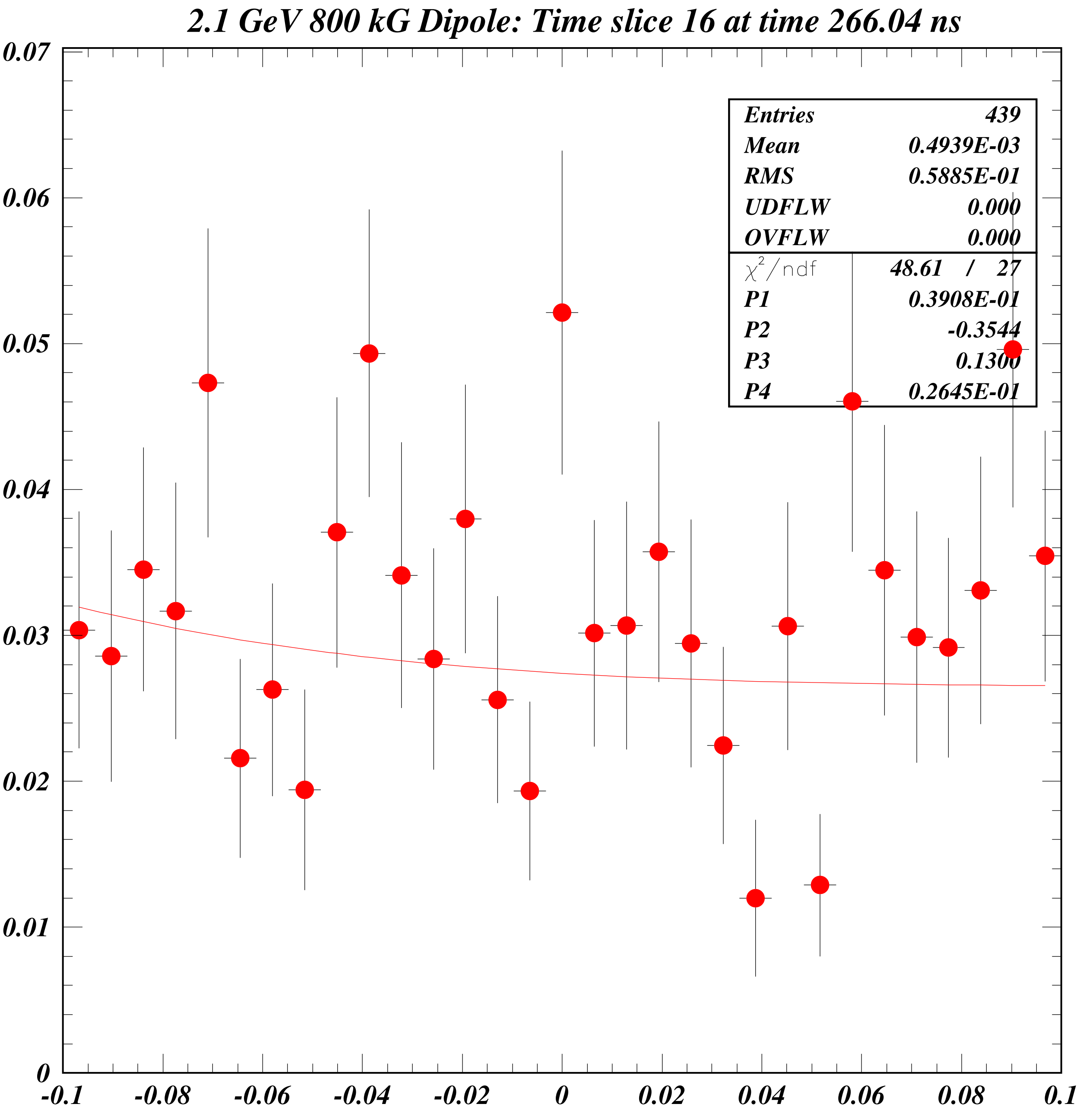
2.1 GeV 800 kG Dipole: Time slice 15 at time 266.02 ns
Entries 447
Mean 0.2397E-02
RMS 0.5814E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 44.08 / 27
P1 892.4
P2 0.5862
P3 0.1028
P4 0.2749E-01
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 15 at time 266.02 ns
Entries 447
Mean 0.2397E-02
RMS 0.5814E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 44.08 / 27
P1 892.4
P2 0.5862
P3 0.1028
P4 0.2749E-01
Cloud charge in bin (10⁶ e)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0.02
0.04
0.06
0.08
0.1
Y (cm)

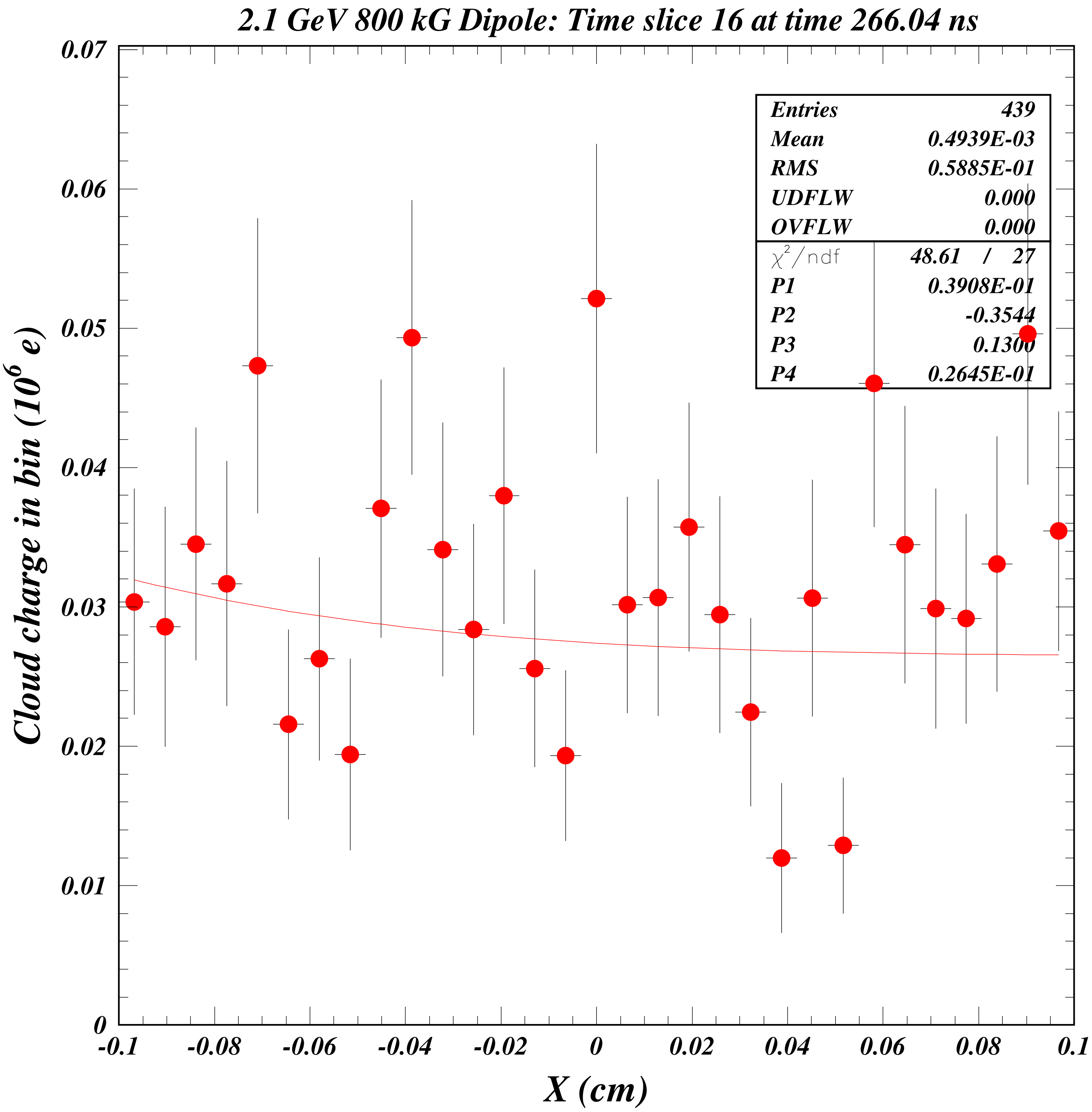


15/09/29 11.38
Snapshot after bunch 20 at time = 266.02 ns
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
Y (cm)
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
X (cm)
0.01
0.008
0.006
0.004
0.002
0
No energy cut: 0k macroparticles, 0 10^6 e-

15/09/29 11.38

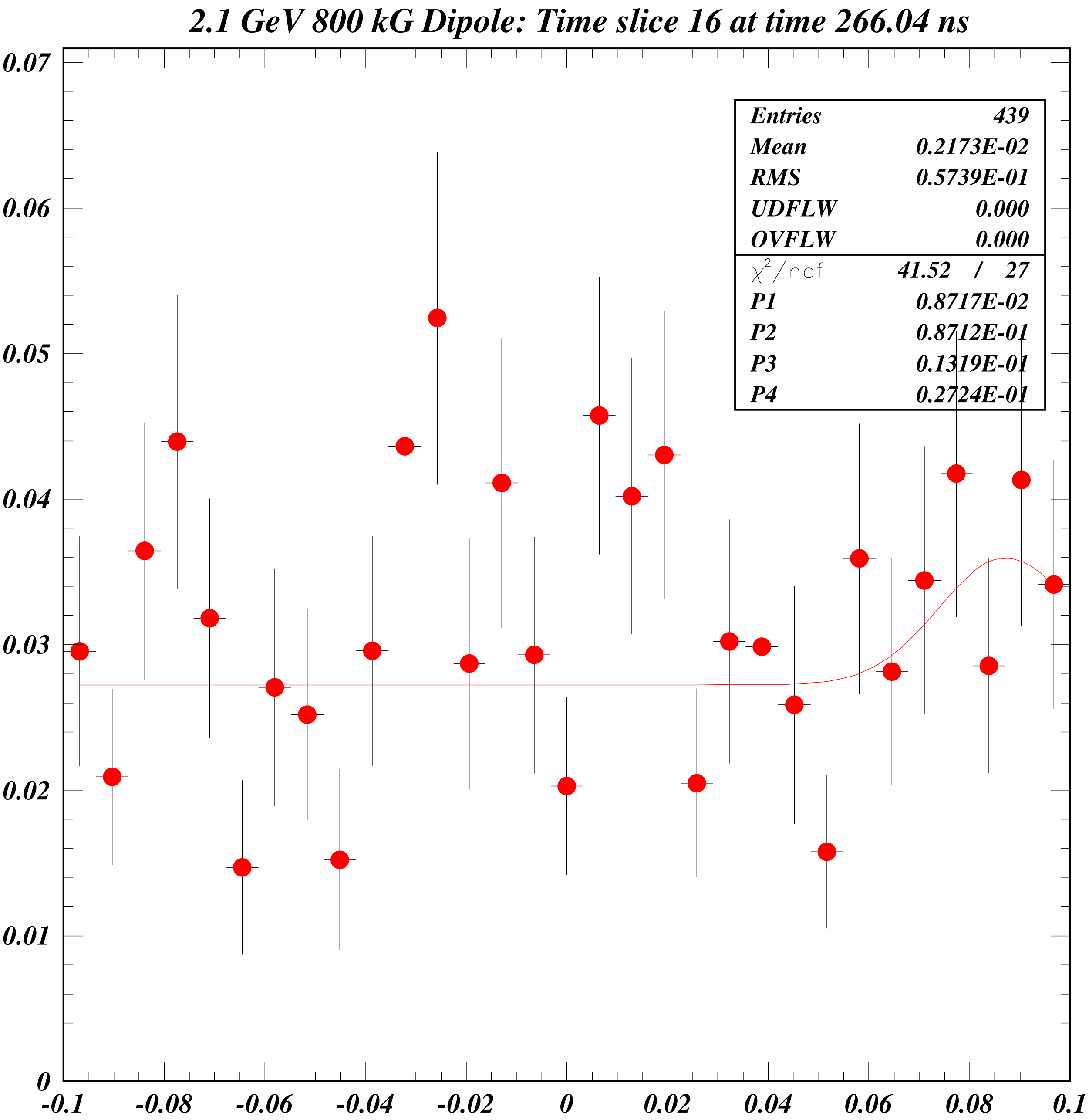

2.1 GeV 800 kG Dipole: Time slice 16 at time 266.04 ns
Entries 439
Mean 0.4939E-03
RMS 0.5885E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 48.61 / 27
P1 0.3908E-01
P2 -0.3544
P3 0.1300
P4 0.2645E-01
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

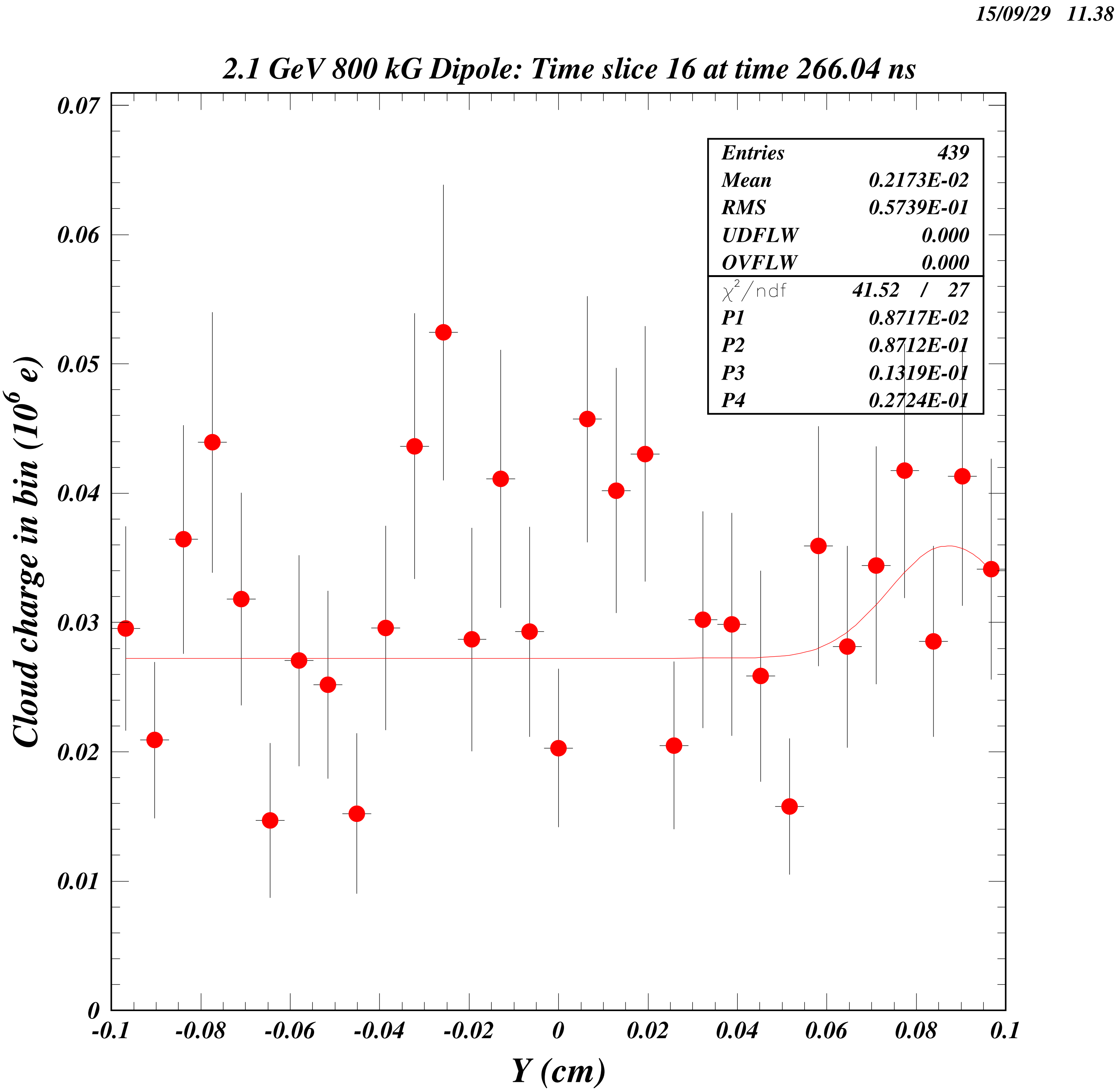


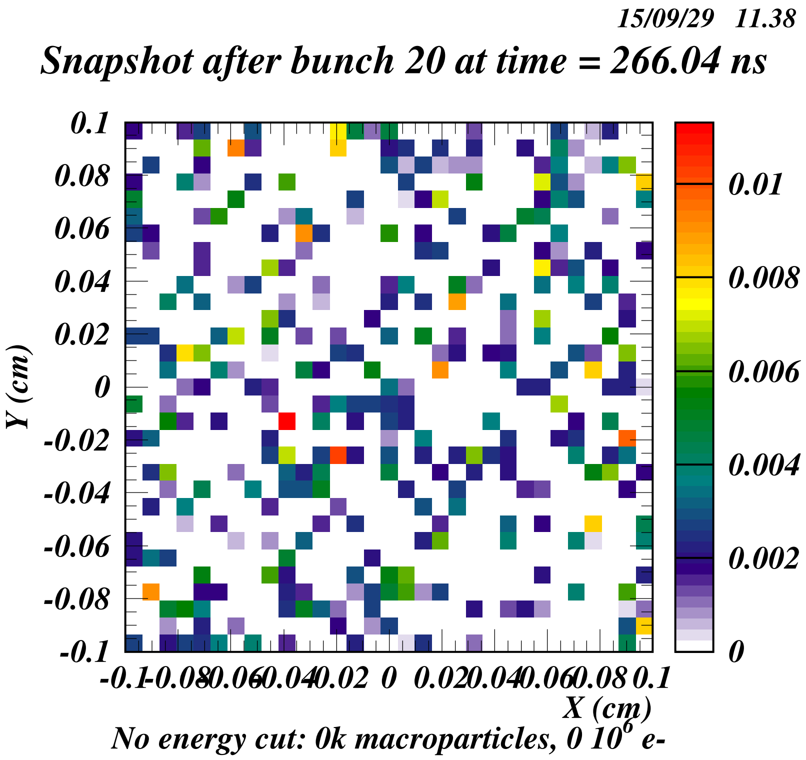
2.1 GeV 800 kG Dipole: Time slice 16 at time 266.04 ns
Entries 439
Mean 0.4939E-03
RMS 0.5885E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 48.61 / 27
P1 0.3908E-01
P2 -0.3544
P3 0.1300
P4 0.2645E-01
Cloud charge in bin (10^6 e)
X (cm)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

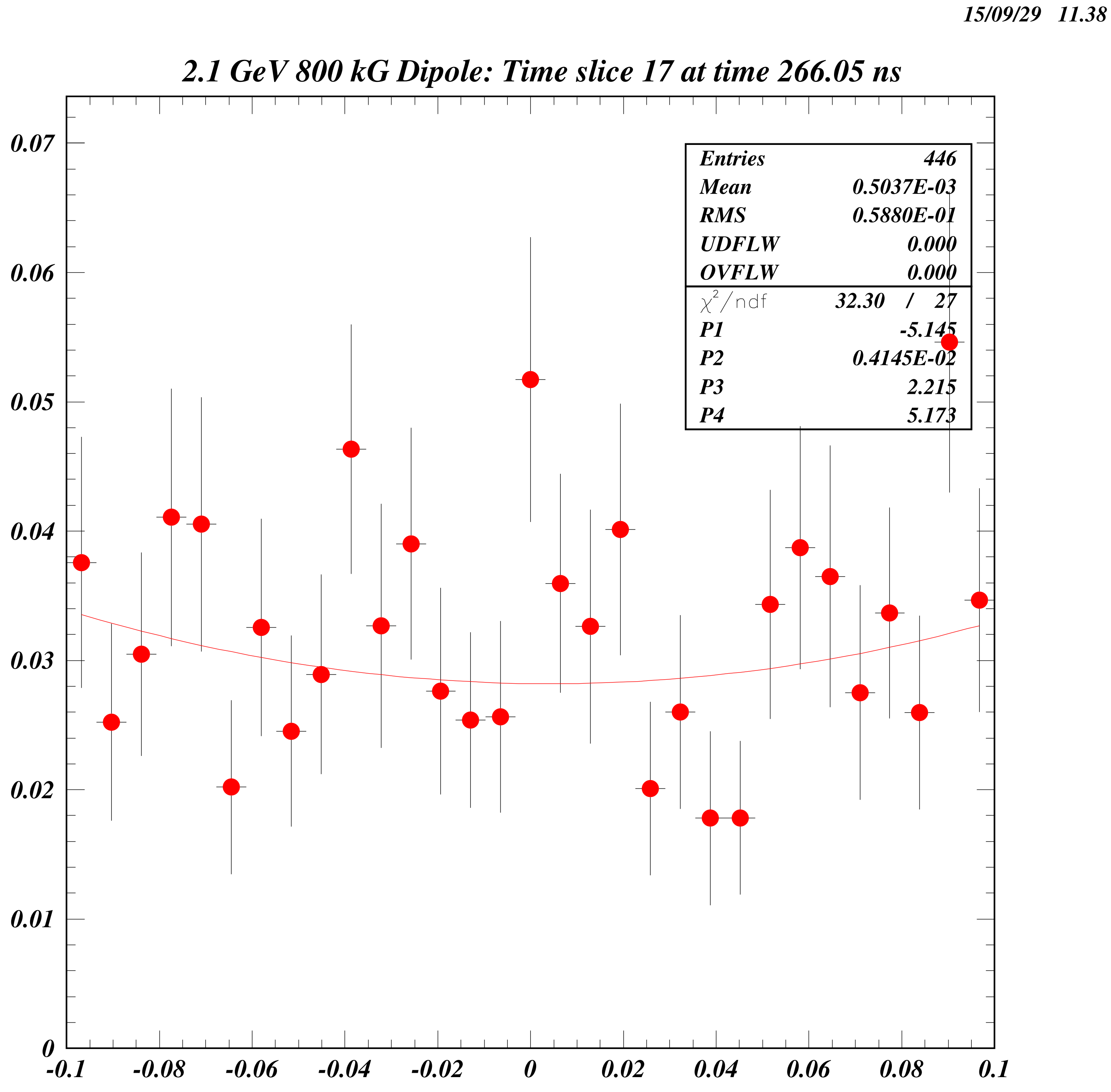
15/09/29 11.38



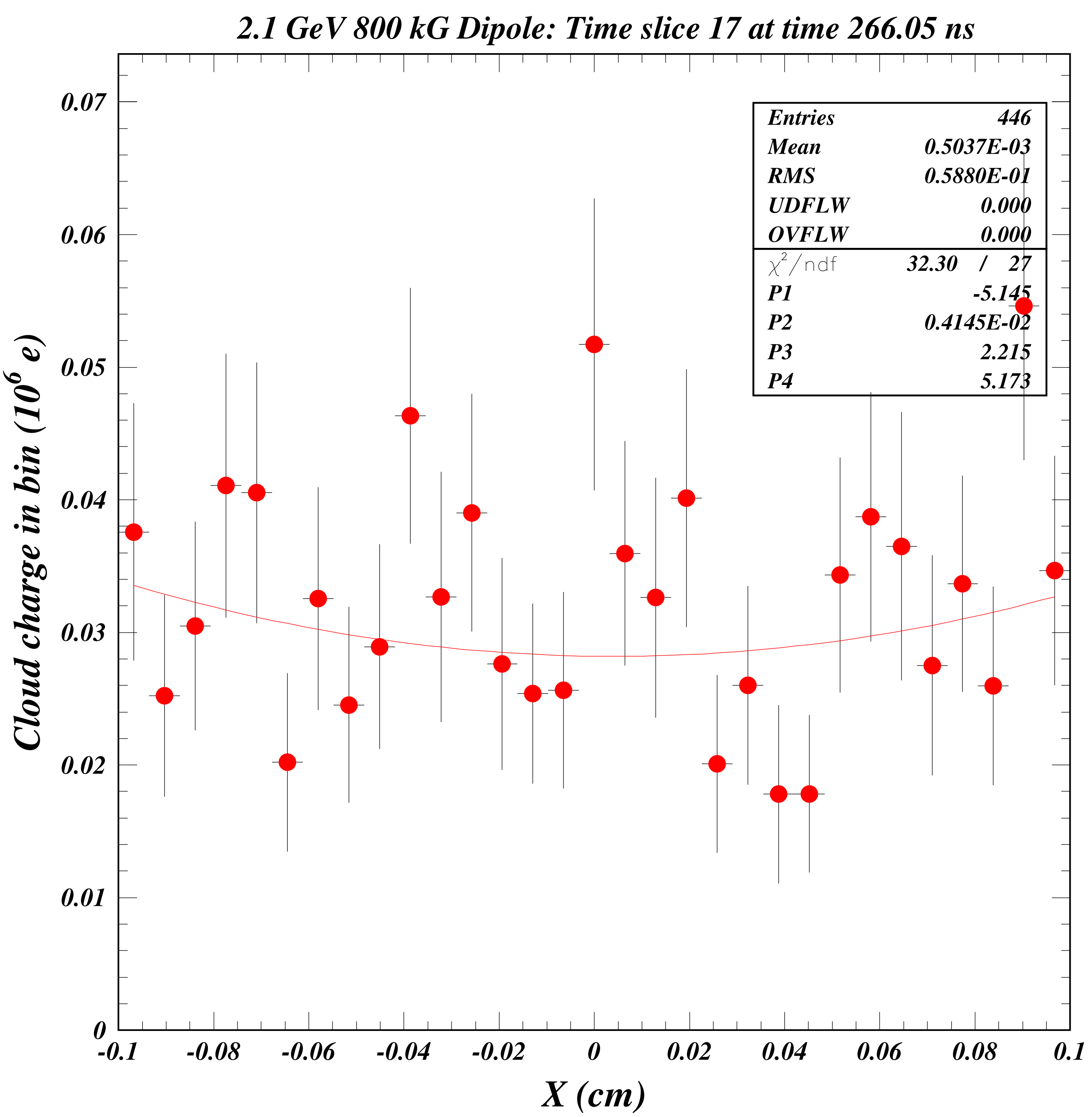
2.1 GeV 800 kG Dipole: Time slice 16 at time 266.04 ns
Entries 439
Mean 0.2173E-02
RMS 0.5739E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 41.52 / 27
P1 0.8717E-02
P2 0.8712E-01
P3 0.1319E-01
P4 0.2724E-01
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 16 at time 266.04 ns
Entries 439
Mean 0.2173E-02
RMS 0.5739E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 41.52 / 27
P1 0.8717E-02
P2 0.8712E-01
P3 0.1319E-01
P4 0.2724E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

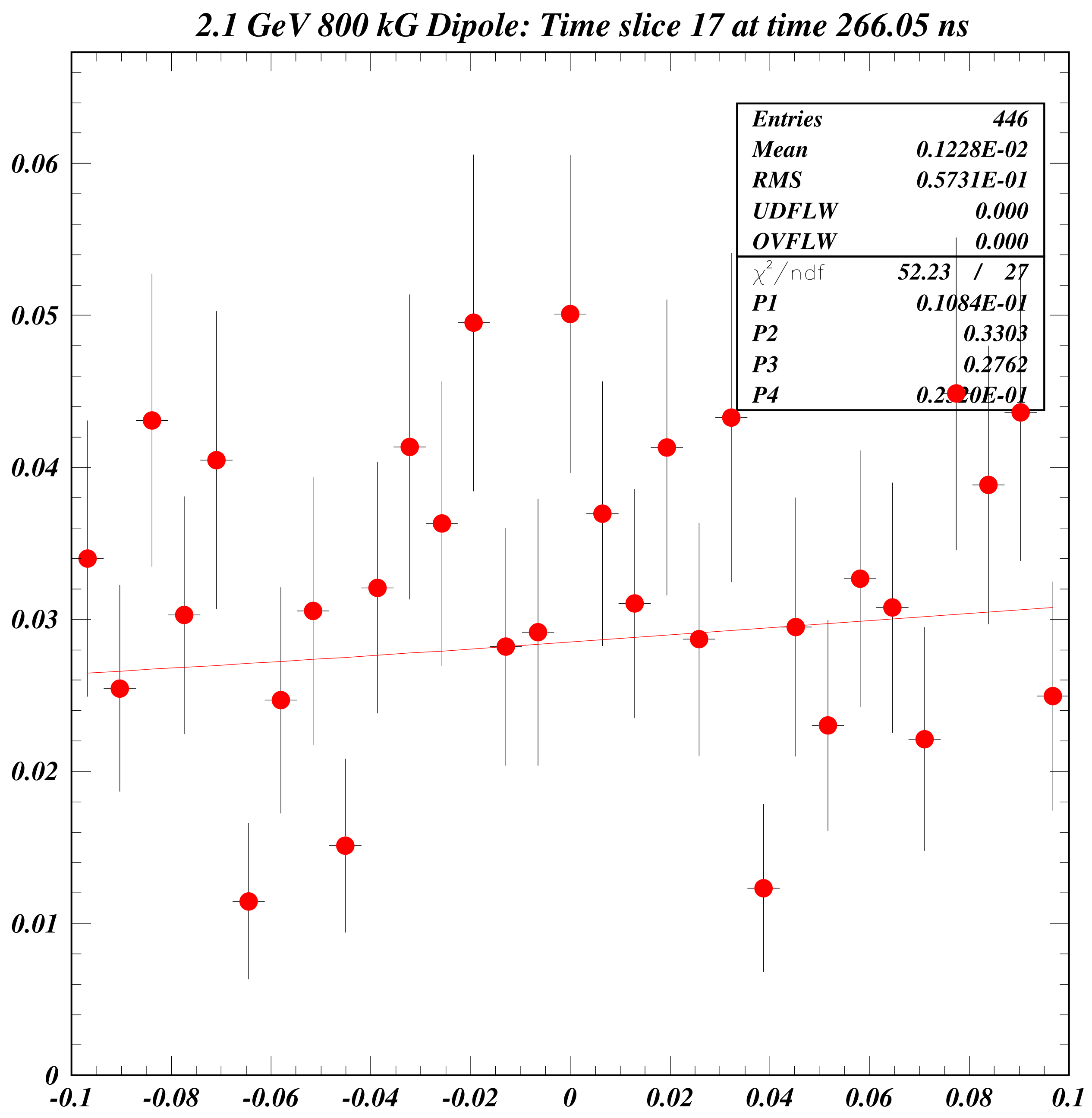

15/09/29 11.38
Snapshot after bunch 20 at time = 266.04 ns
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
Y (cm)
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
X (cm)
0.01
0.008
0.006
0.004
0.002
0
No energy cut: 0k macroparticles, 0 10^6 e-

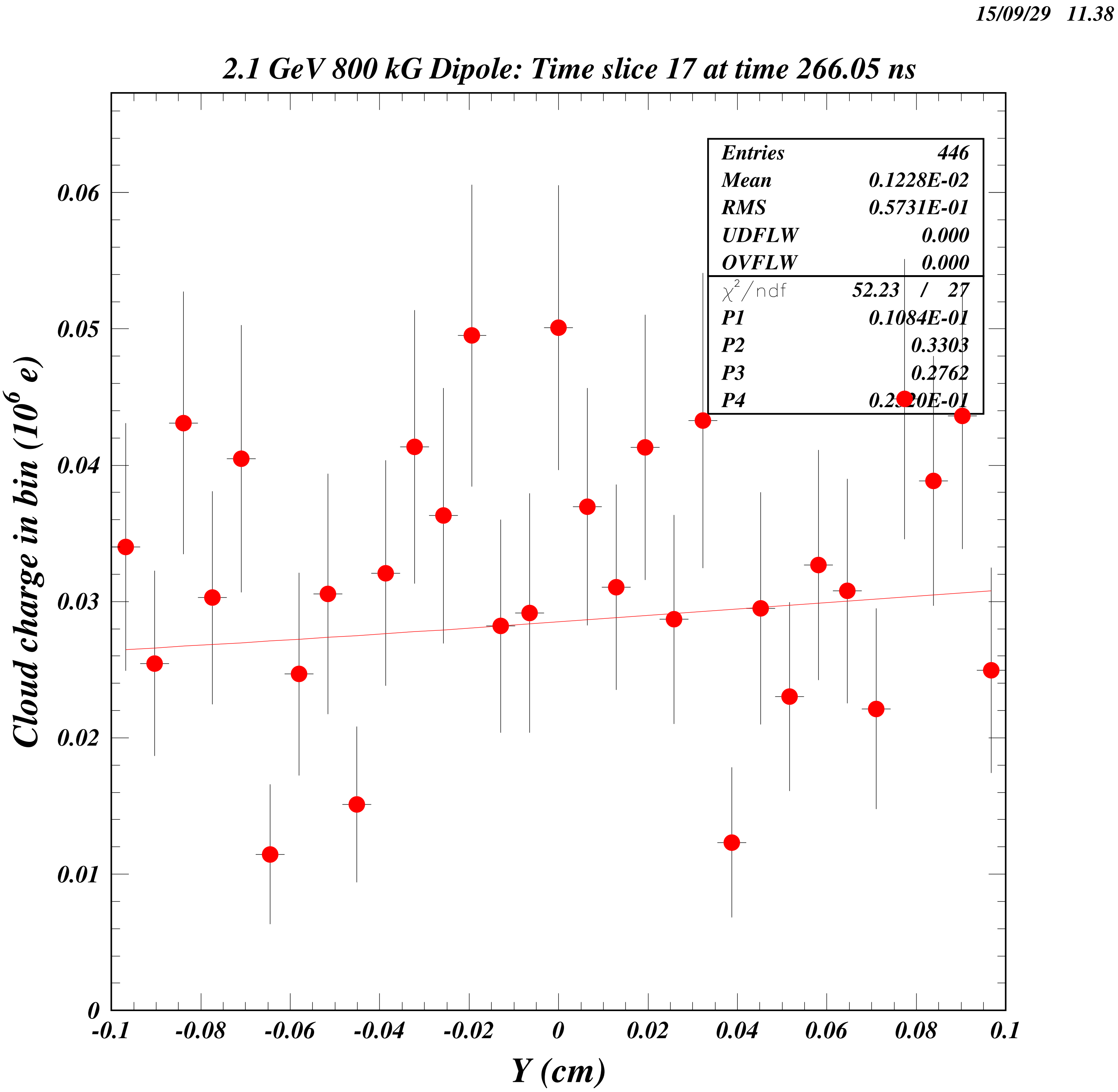

15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 17 at time 266.05 ns
Entries 446
Mean 0.5037E-03
RMS 0.5880E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 32.30 / 27
P1 -5.145
P2 0.4145E-02
P3 2.215
P4 5.173
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

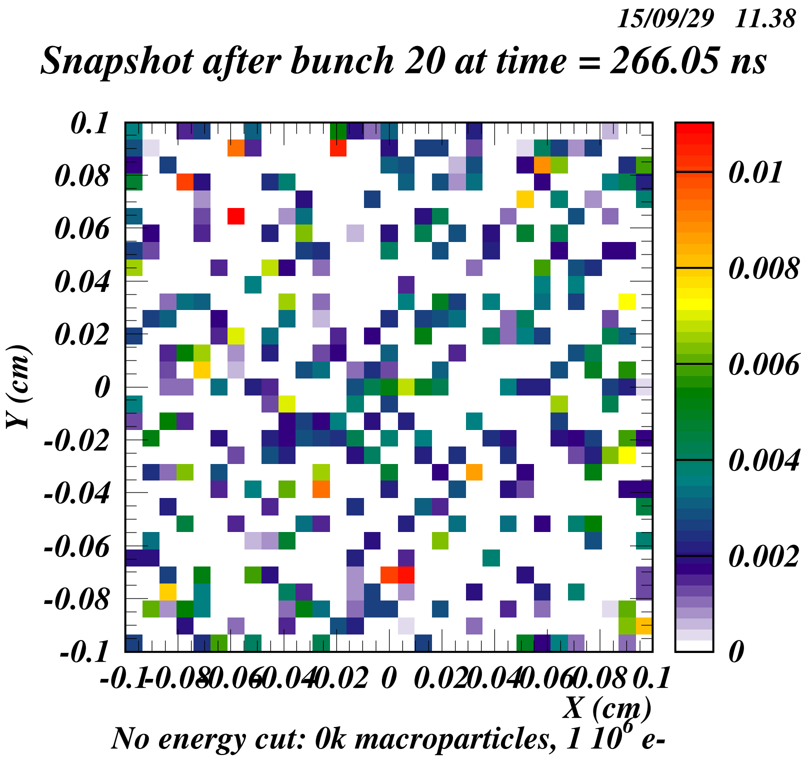


2.1 GeV 800 kG Dipole: Time slice 17 at time 266.05 ns
Entries 446
Mean 0.5037E-03
RMS 0.5880E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 32.30 / 27
P1 -5.145
P2 0.4145E-02
P3 2.215
P4 5.173
Cloud charge in bin (10⁶ e)
X (cm)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0.02
0.04
0.06
0.08
0.1

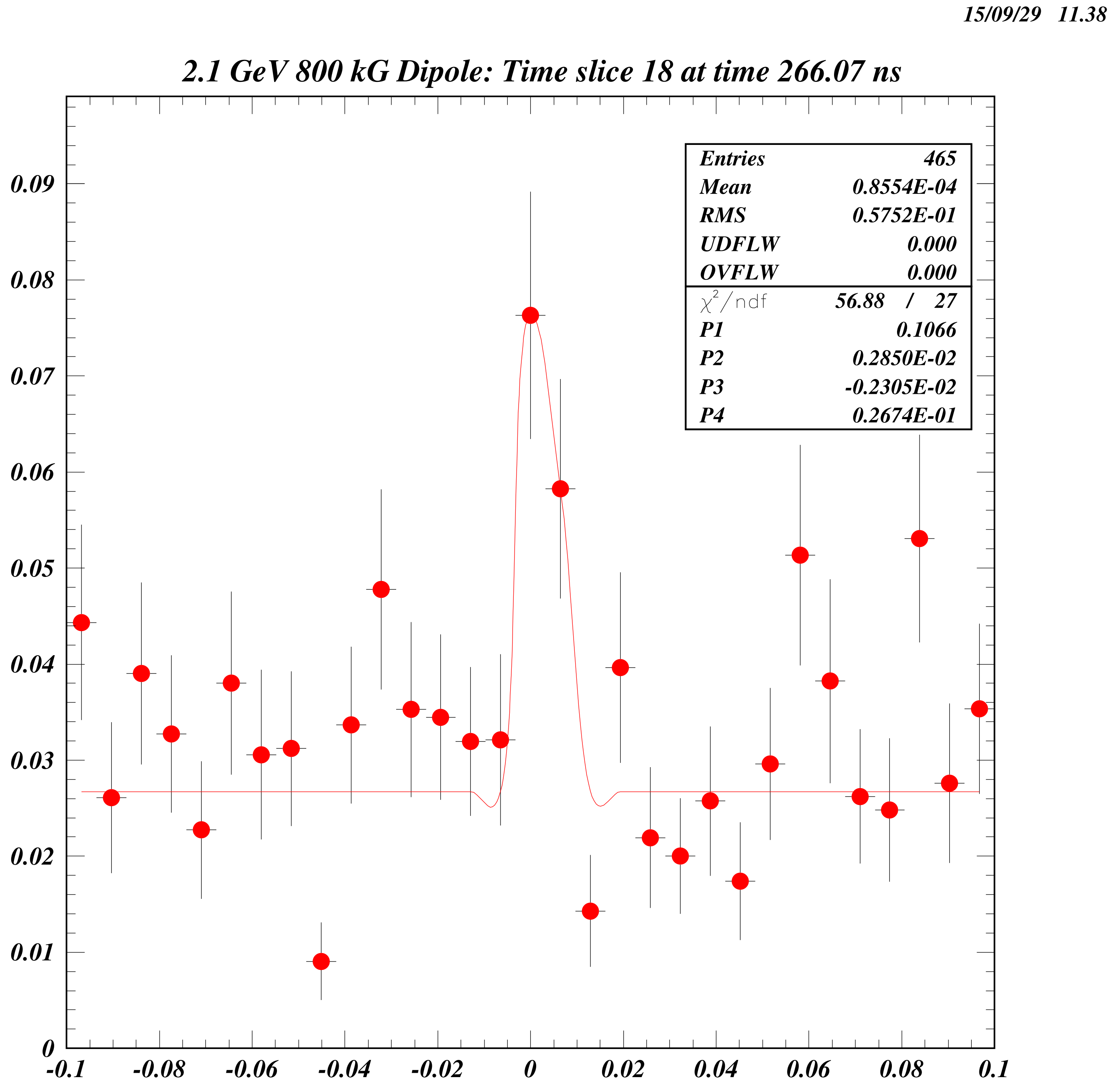

2.1 GeV 800 kG Dipole: Time slice 17 at time 266.05 ns
Entries 446
Mean 0.1228E-02
RMS 0.5731E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 52.23 / 27
P1 0.1084E-01
P2 0.3303
P3 0.2762
P4
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

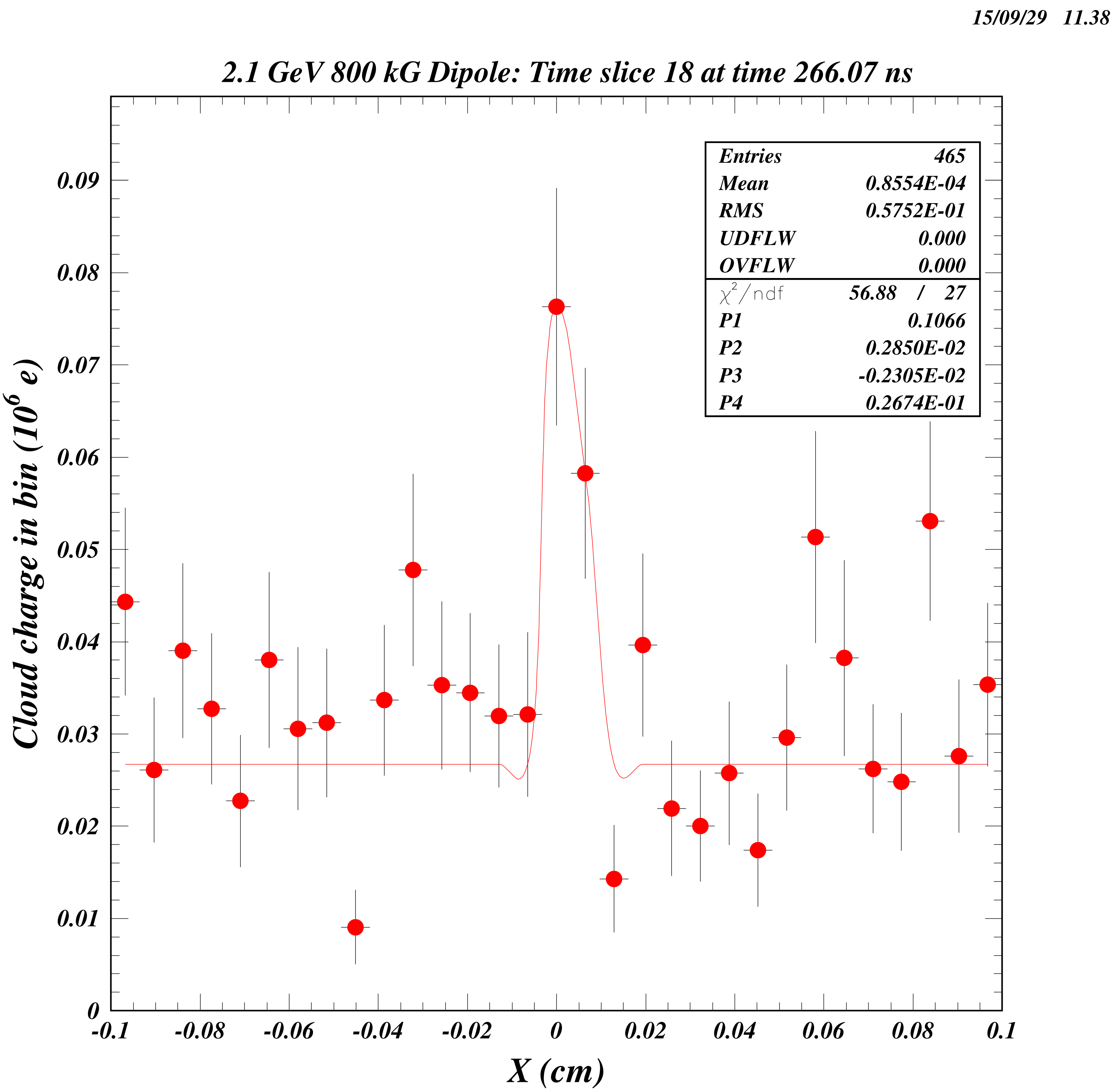


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 17 at time 266.05 ns
Entries 446
Mean 0.1228E-02
RMS 0.5731E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 52.23 / 27
P1 0.1084E-01
P2 0.3303
P3 0.2762
P4 0.2920E-01
Cloud charge in bin (10^6 e)
0 0.01 0.02 0.03 0.04 0.05 0.06
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1
Y (cm)



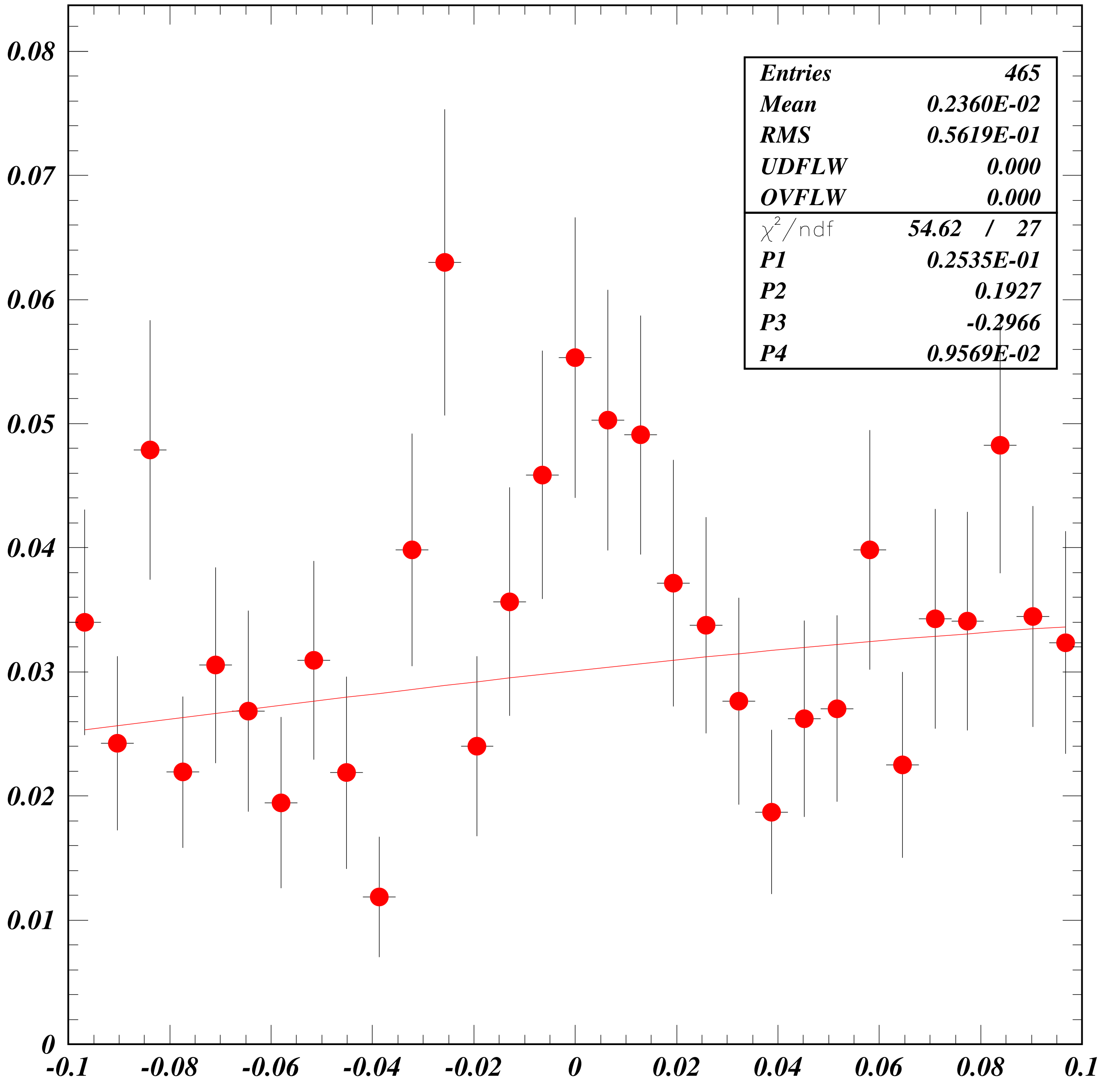
15/09/29 11.38
Snapshot after bunch 20 at time = 266.05 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 1 10^6 e-


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 18 at time 266.07 ns
Entries 465
Mean 0.8554E-04
RMS 0.5752E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 56.88 / 27
P1 0.1066
P2 0.2850E-02
P3 -0.2305E-02
P4 0.2674E-01
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

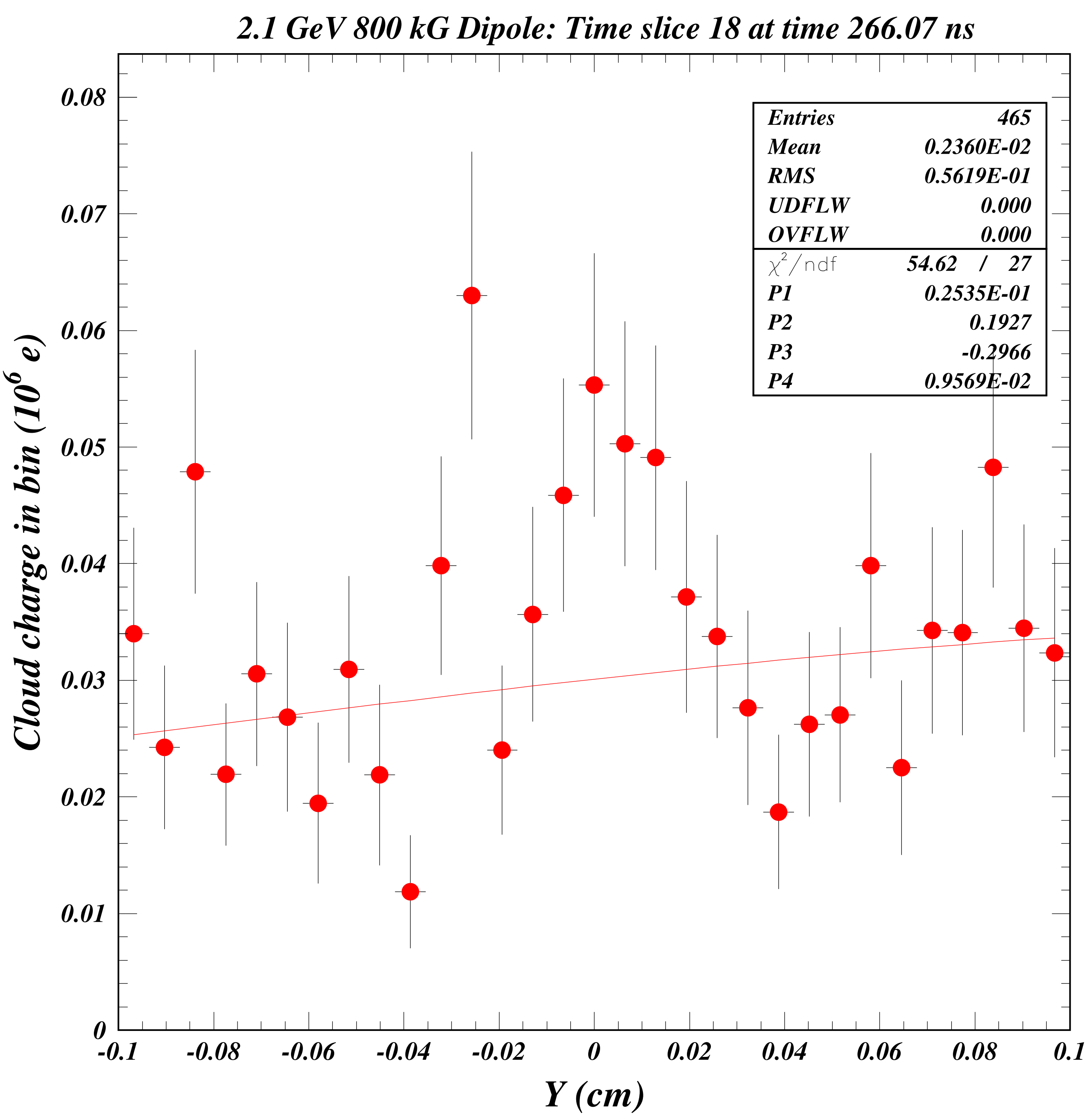

15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 18 at time 266.07 ns
Entries 465
Mean 0.8554E-04
RMS 0.5752E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 56.88 / 27
P1 0.1066
P2 0.2850E-02
P3 -0.2305E-02
P4 0.2674E-01
Cloud charge in bin (10⁶ e)
X (cm)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

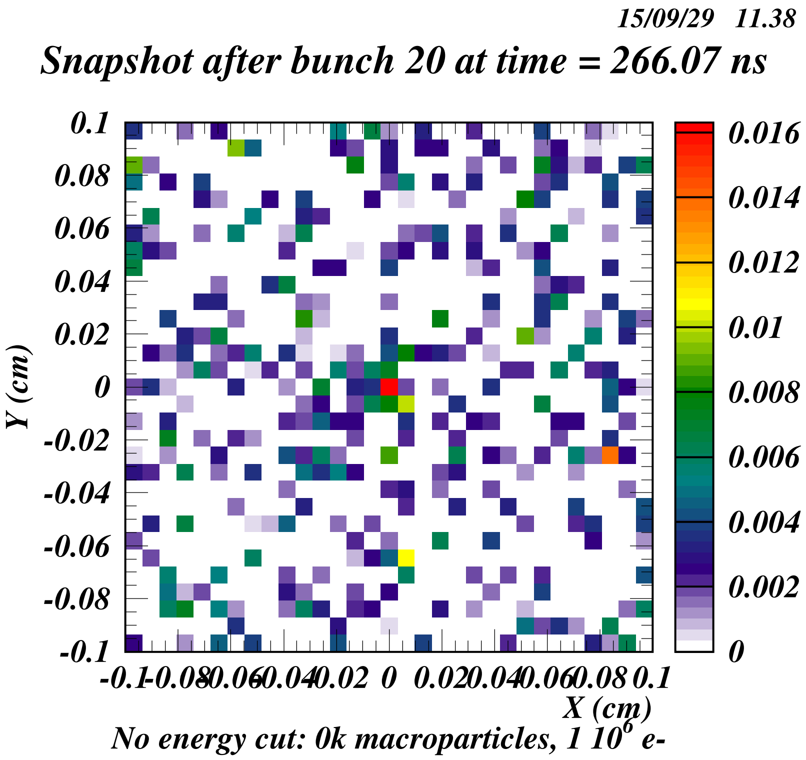
2.1 GeV 800 kG Dipole: Time slice 18 at time 266.07 ns



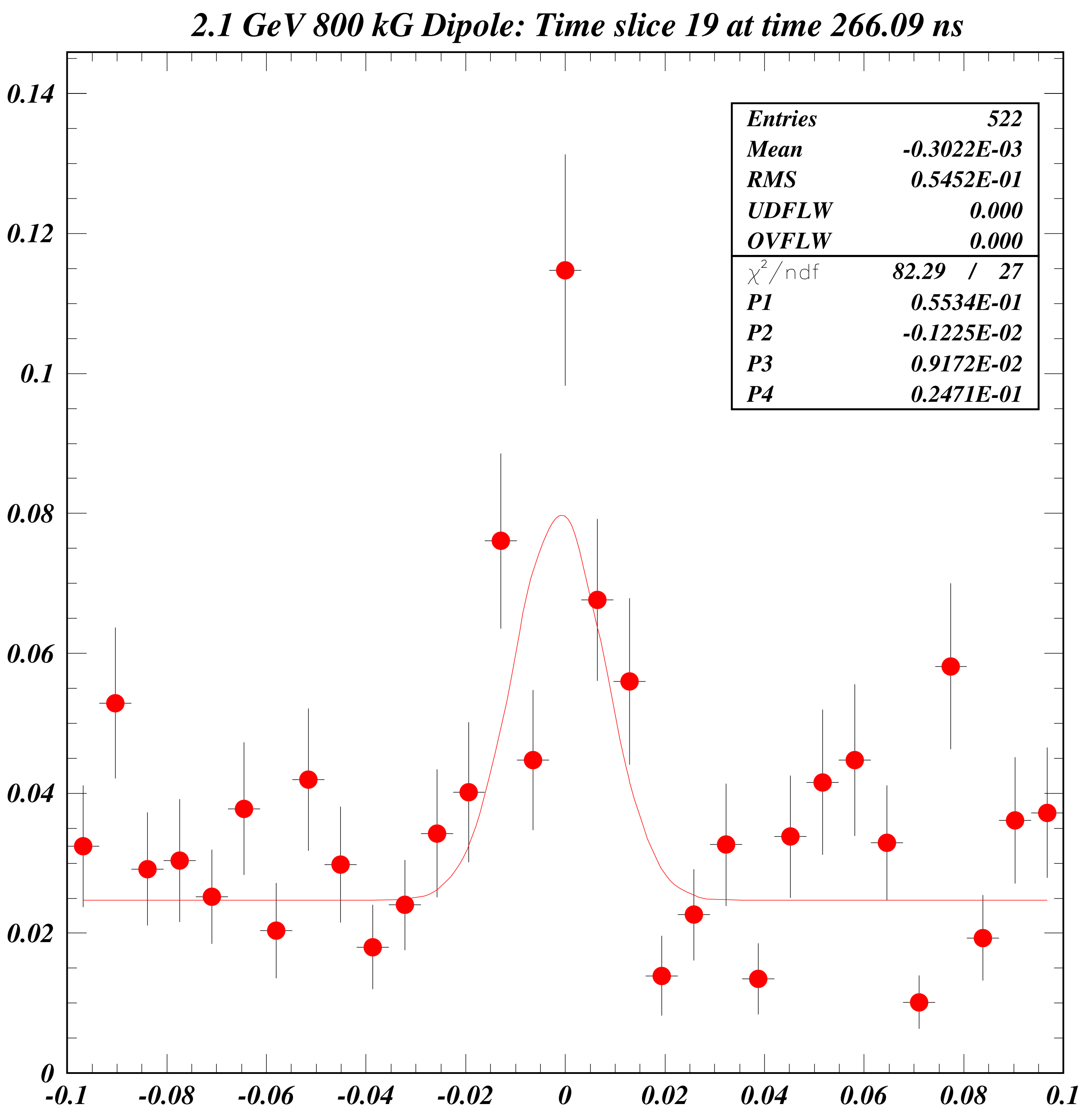
15/09/29 11.38

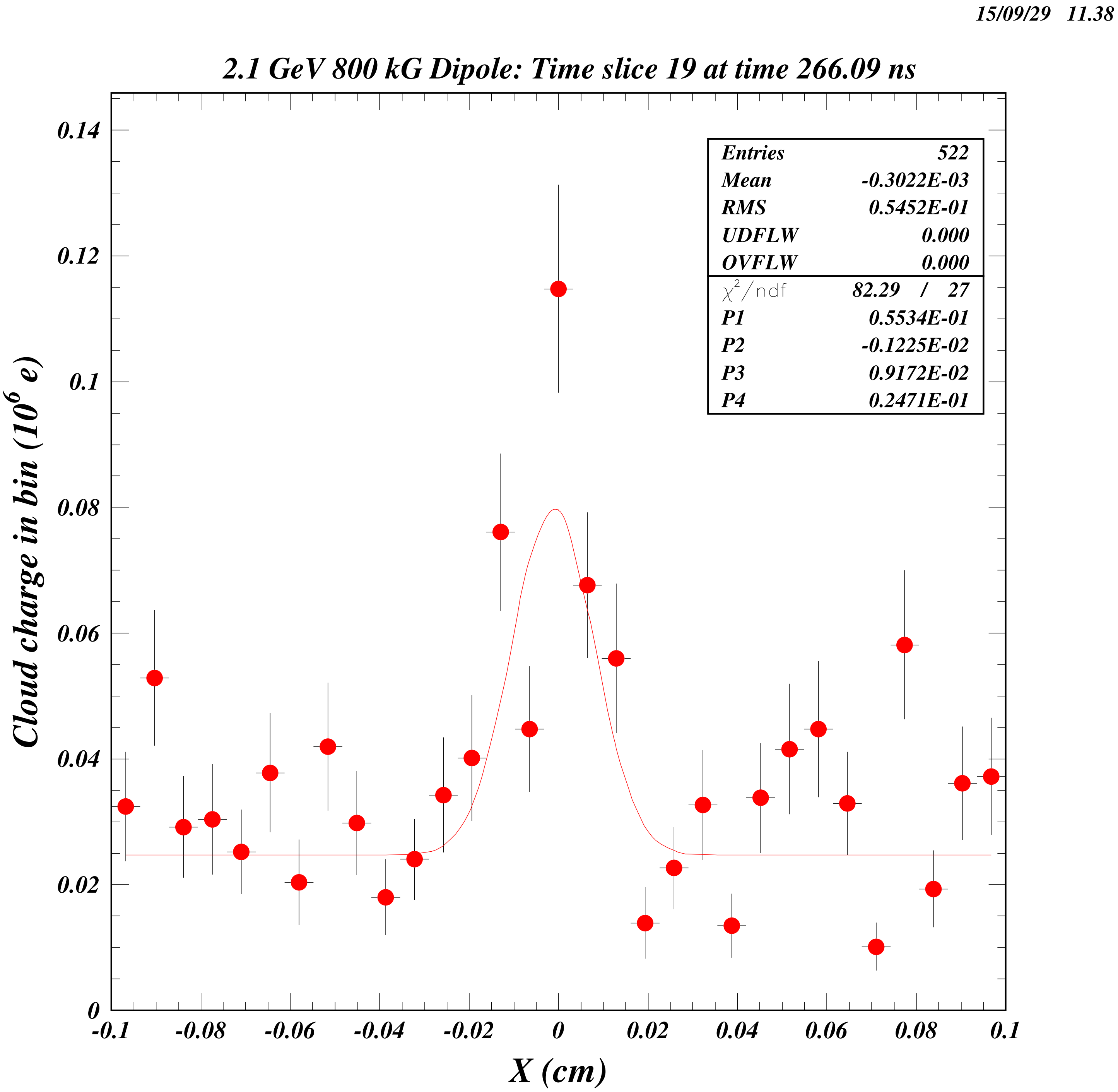


2.1 GeV 800 kG Dipole: Time slice 18 at time 266.07 ns
Entries 465
Mean 0.2360E-02
RMS 0.5619E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 54.62 / 27
P1 0.2535E-01
P2 0.1927
P3 -0.2966
P4 0.9569E-02
Cloud charge in bin (10⁶ e)
Y (cm)


15/09/29 11.38
Snapshot after bunch 20 at time = 266.07 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 1 10^6 e-

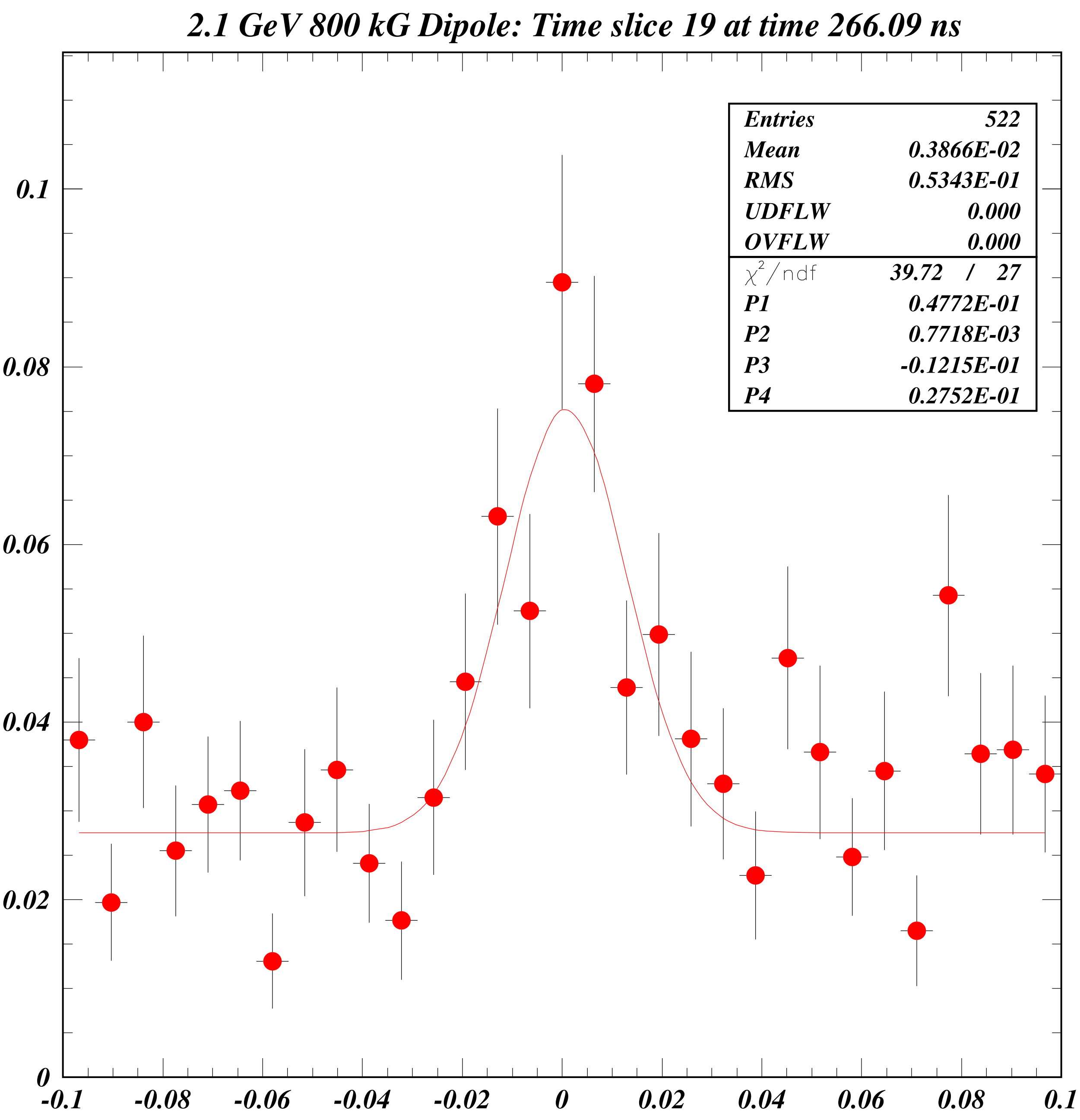
15/09/29 11.38


2.1 GeV 800 kG Dipole: Time slice 19 at time 266.09 ns
Entries 522
Mean -0.3022E-03
RMS 0.5452E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 82.29 / 27
P1 0.5534E-01
P2 -0.1225E-02
P3 0.9172E-02
P4 0.2471E-01
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

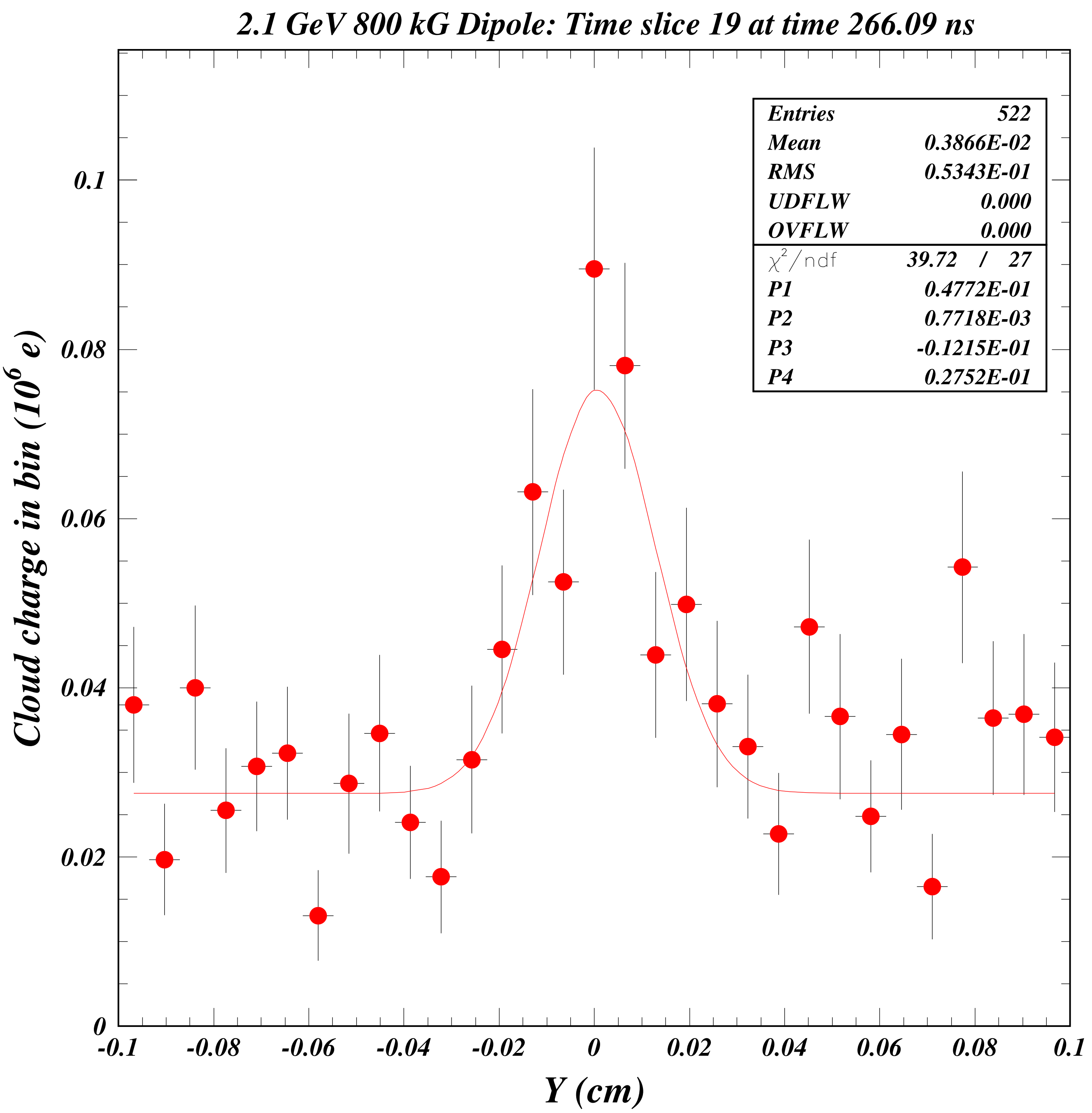


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 19 at time 266.09 ns
Entries 522
Mean -0.3022E-03
RMS 0.5452E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 82.29 / 27
P1 0.5534E-01
P2 -0.1225E-02
P3 0.9172E-02
P4 0.2471E-01
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

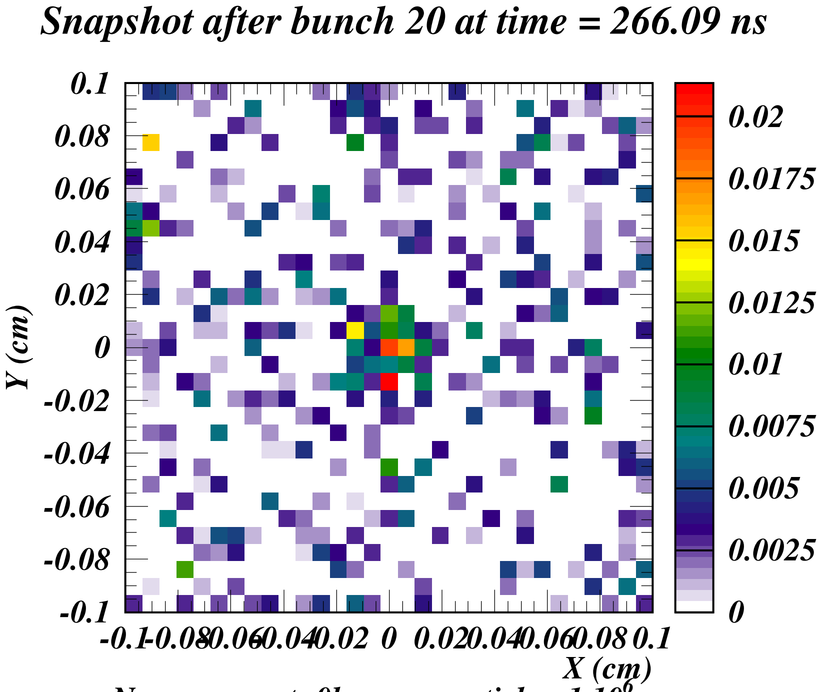
15/09/29   11.38


2.1 GeV 800 kG Dipole: Time slice 19 at time 266.09 ns
Entries 522
Mean 0.3866E-02
RMS 0.5343E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 39.72 / 27
P1 0.4772E-01
P2 0.7718E-03
P3 -0.1215E-01
P4 0.2752E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

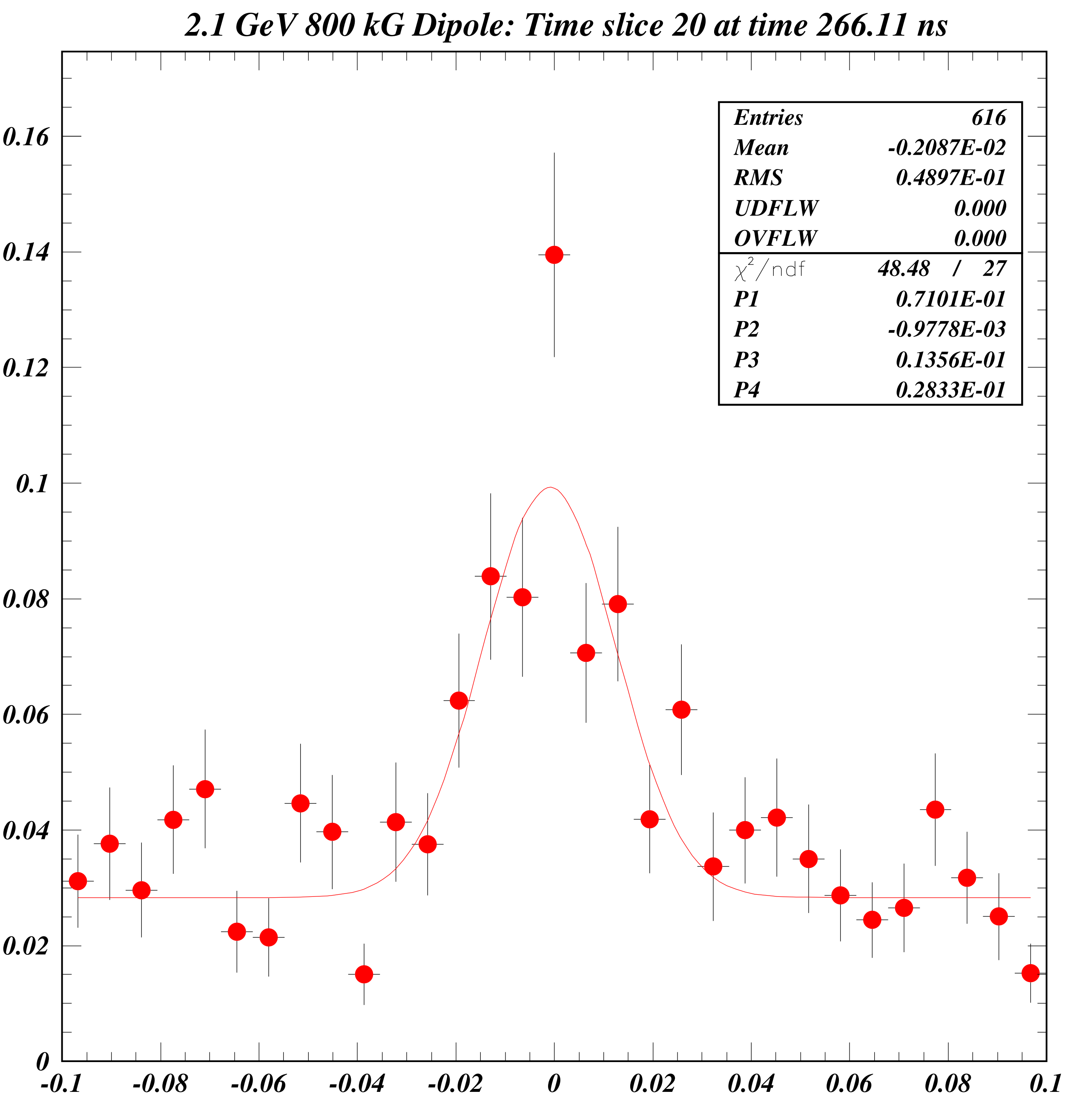

2.1 GeV 800 kG Dipole: Time slice 19 at time 266.09 ns
Entries 522
Mean 0.3866E-02
RMS 0.5343E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 39.72 / 27
P1 0.4772E-01
P2 0.7718E-03
P3 -0.1215E-01
P4 0.2752E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

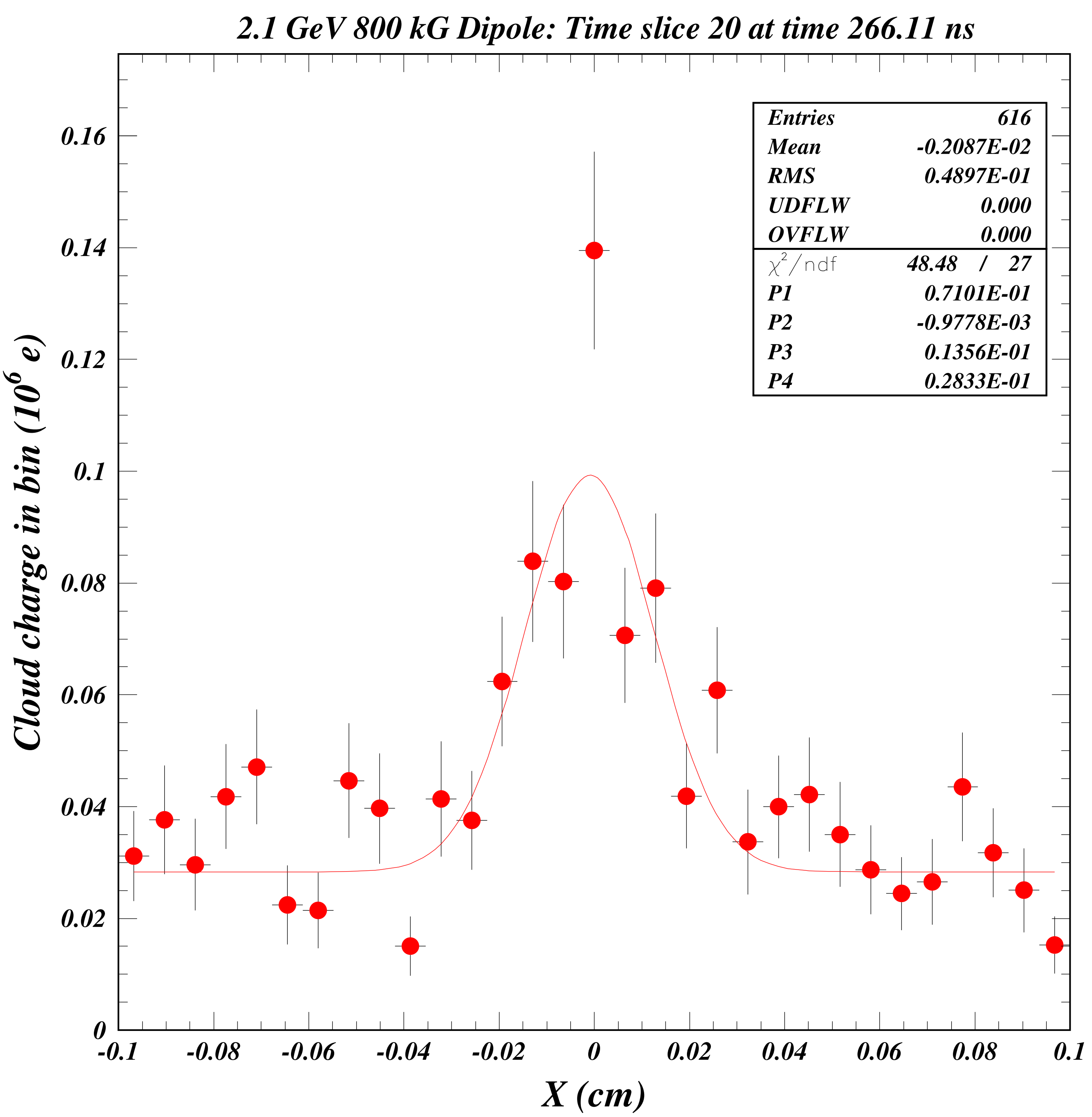
15/09/29 11.38

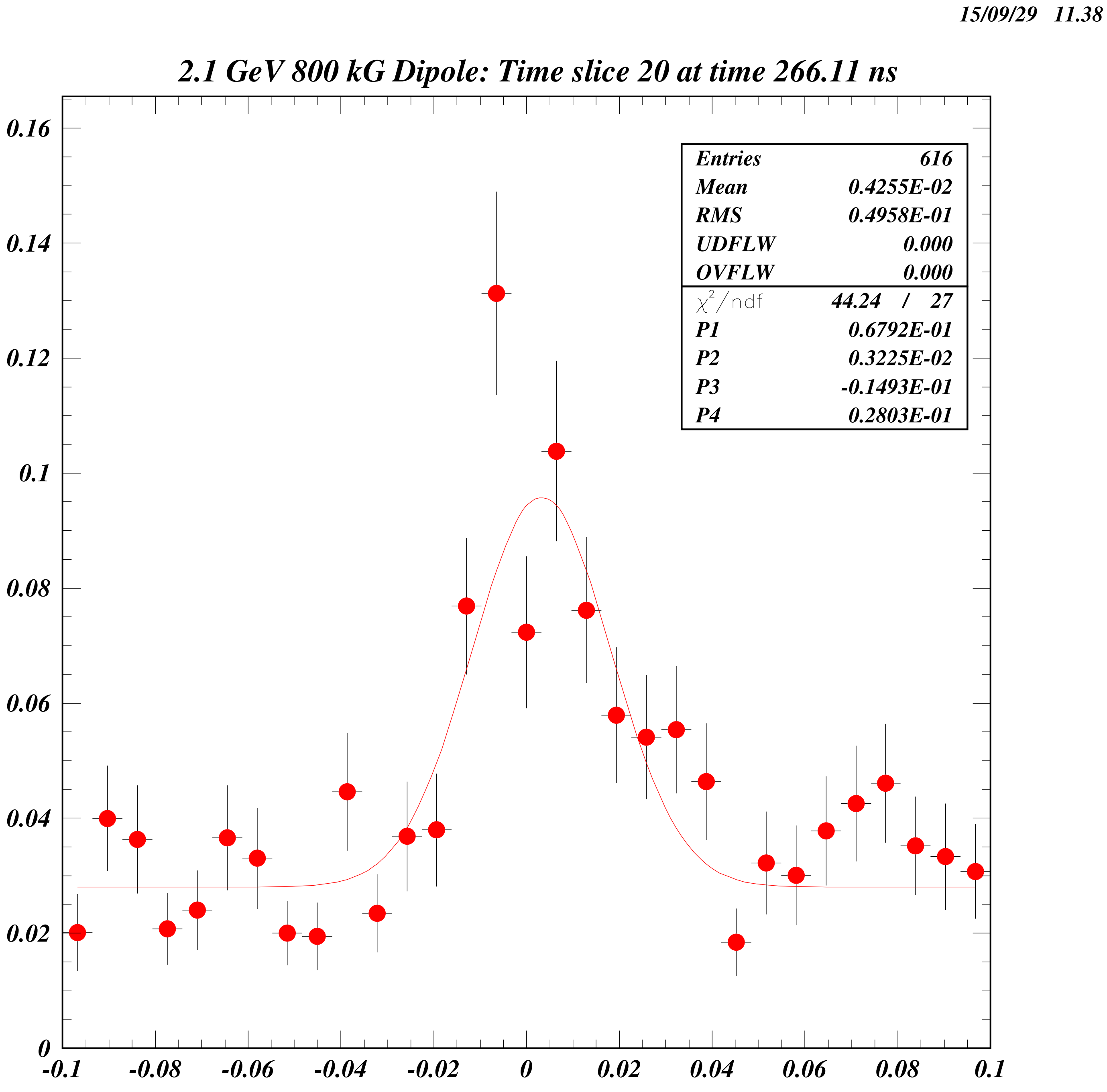


No energy cut: 0k macroparticles, 1 10^6 e-

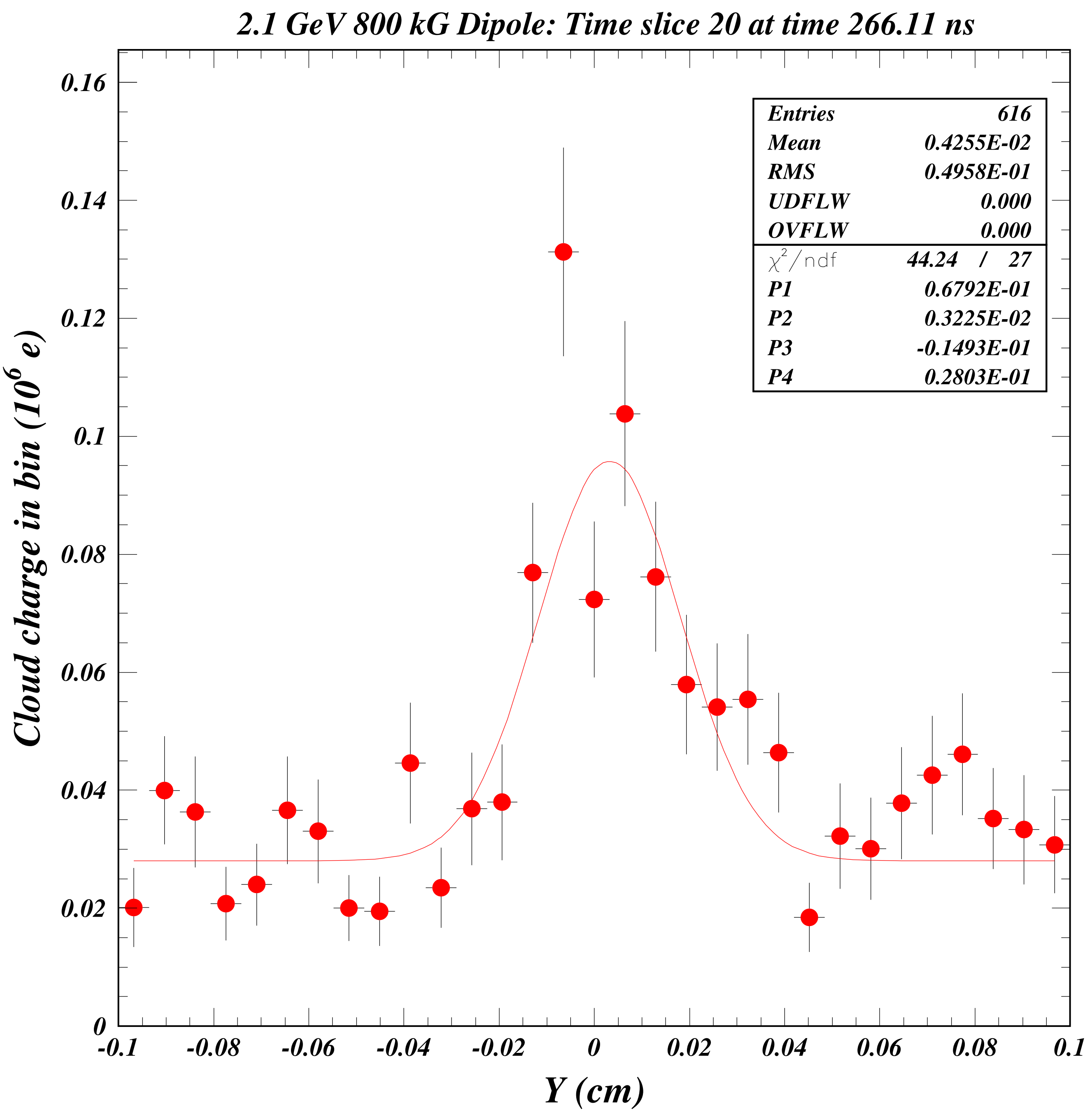
15/09/29   11.38


2.1 GeV 800 kG Dipole: Time slice 20 at time 266.11 ns
Entries 616
Mean -0.2087E-02
RMS 0.4897E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 48.48 / 27
P1 0.7101E-01
P2 -0.9778E-03
P3 0.1356E-01
P4 0.2833E-01
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

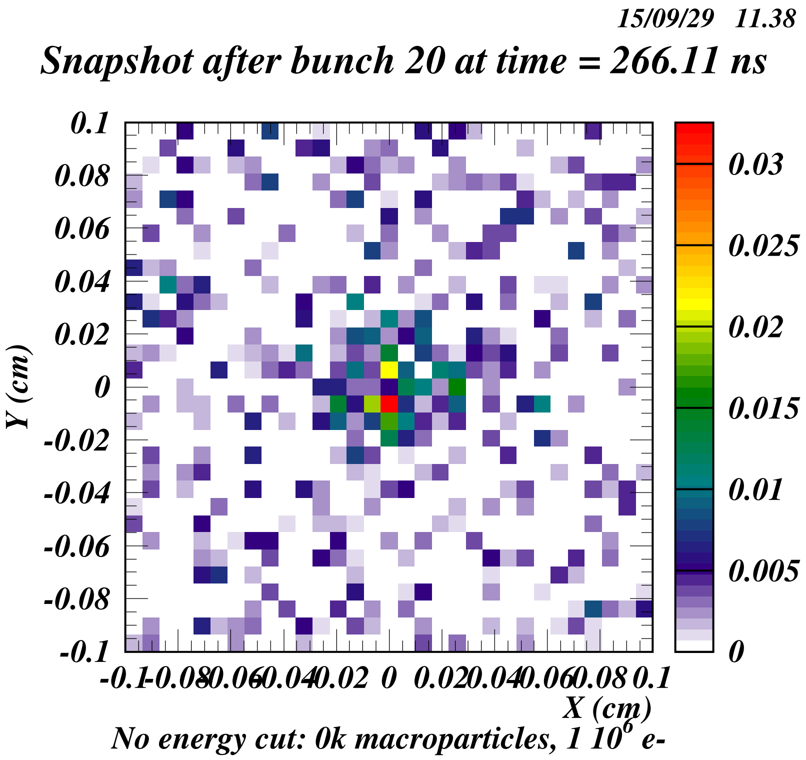

2.1 GeV 800 kG Dipole: Time slice 20 at time 266.11 ns
Entries 616
Mean -0.2087E-02
RMS 0.4897E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 48.48 / 27
P1 0.7101E-01
P2 -0.9778E-03
P3 0.1356E-01
P4 0.2833E-01
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 20 at time 266.11 ns
Entries 616
Mean 0.4255E-02
RMS 0.4958E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 44.24 / 27
P1 0.6792E-01
P2 0.3225E-02
P3 -0.1493E-01
P4 0.2803E-01
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

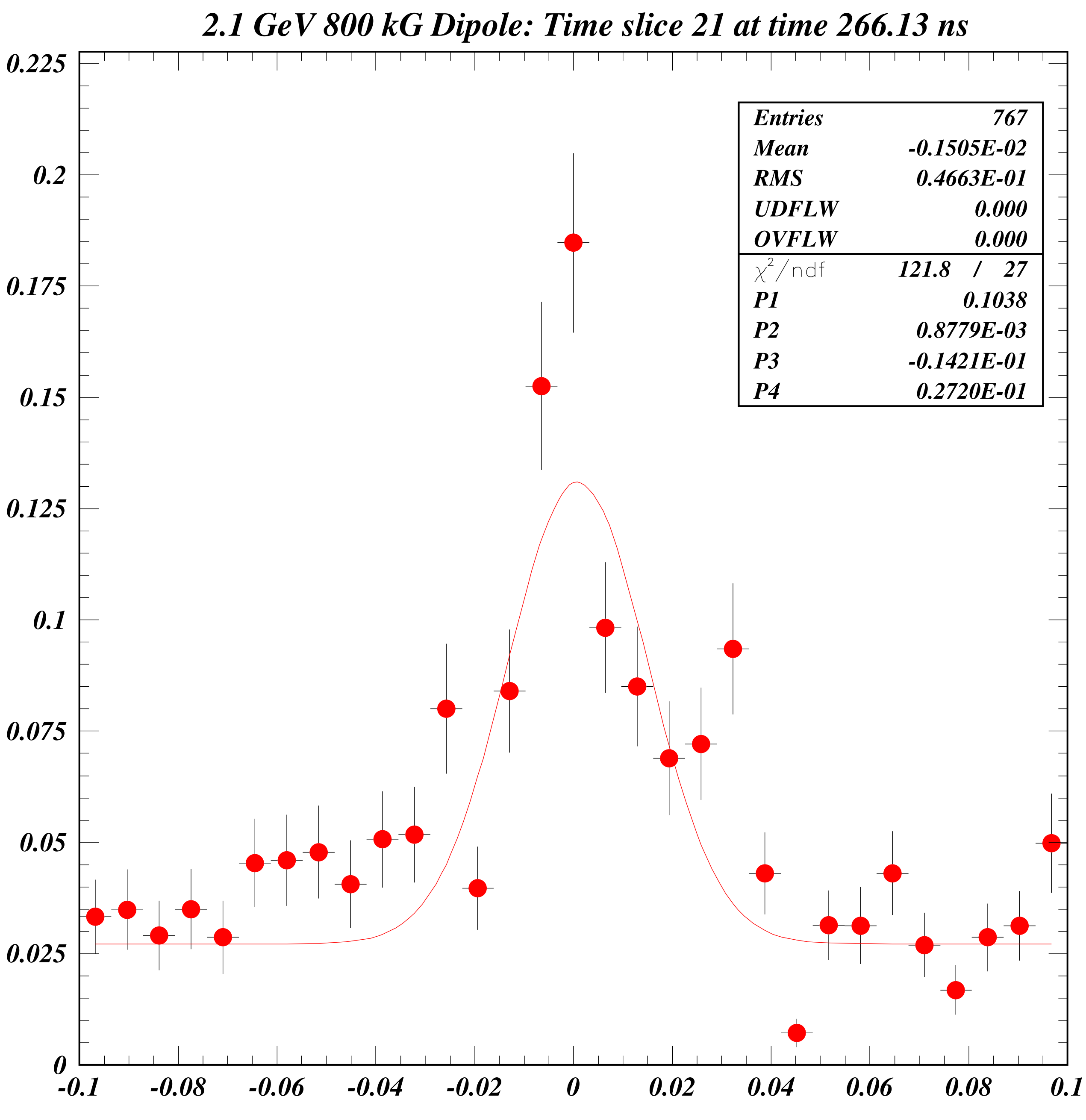


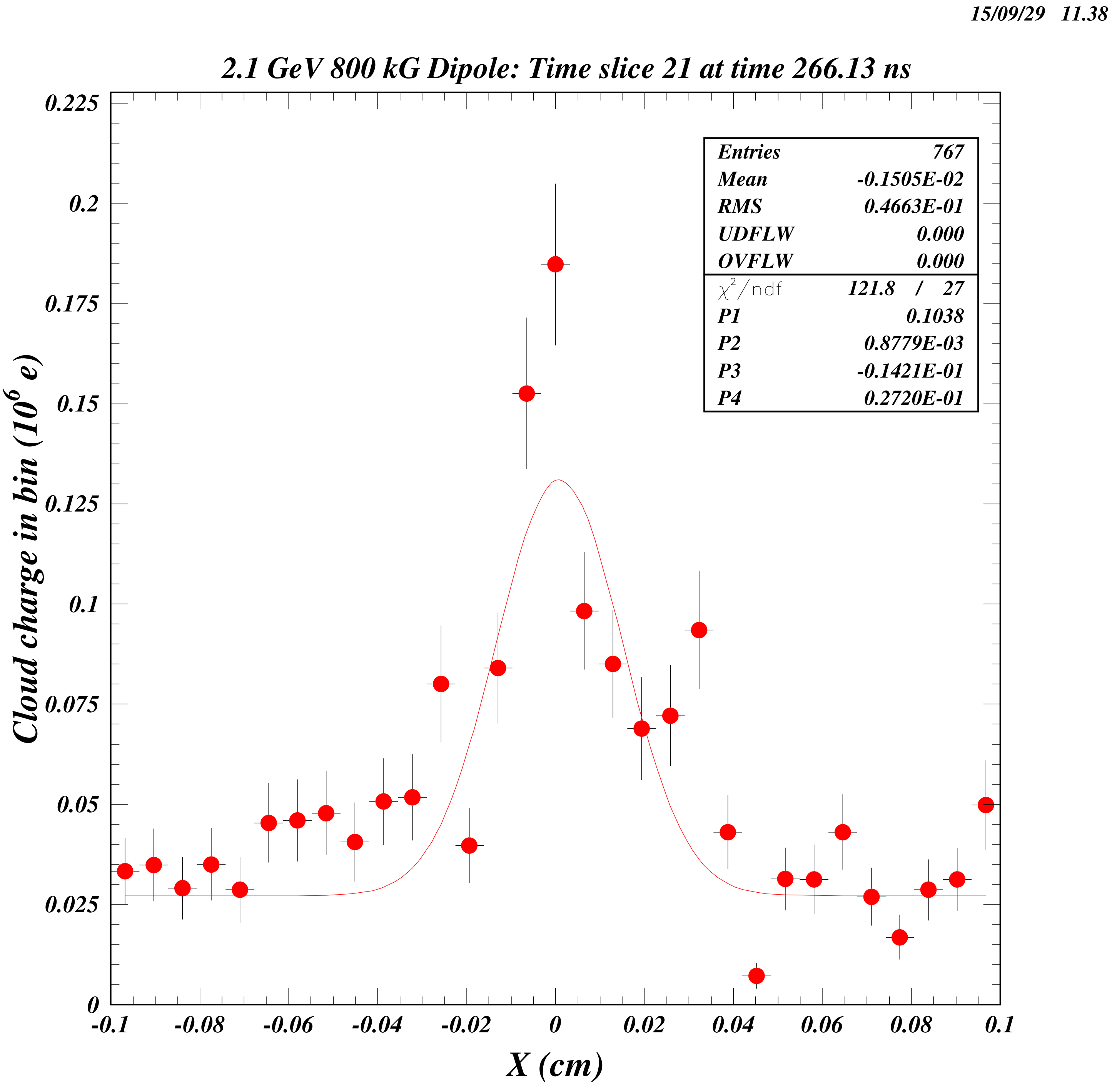
2.1 GeV 800 kG Dipole: Time slice 20 at time 266.11 ns
Entries 616
Mean 0.4255E-02
RMS 0.4958E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 44.24 / 27
P1 0.6792E-01
P2 0.3225E-02
P3 -0.1493E-01
P4 0.2803E-01
Cloud charge in bin (10^6 e)
Y (cm)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



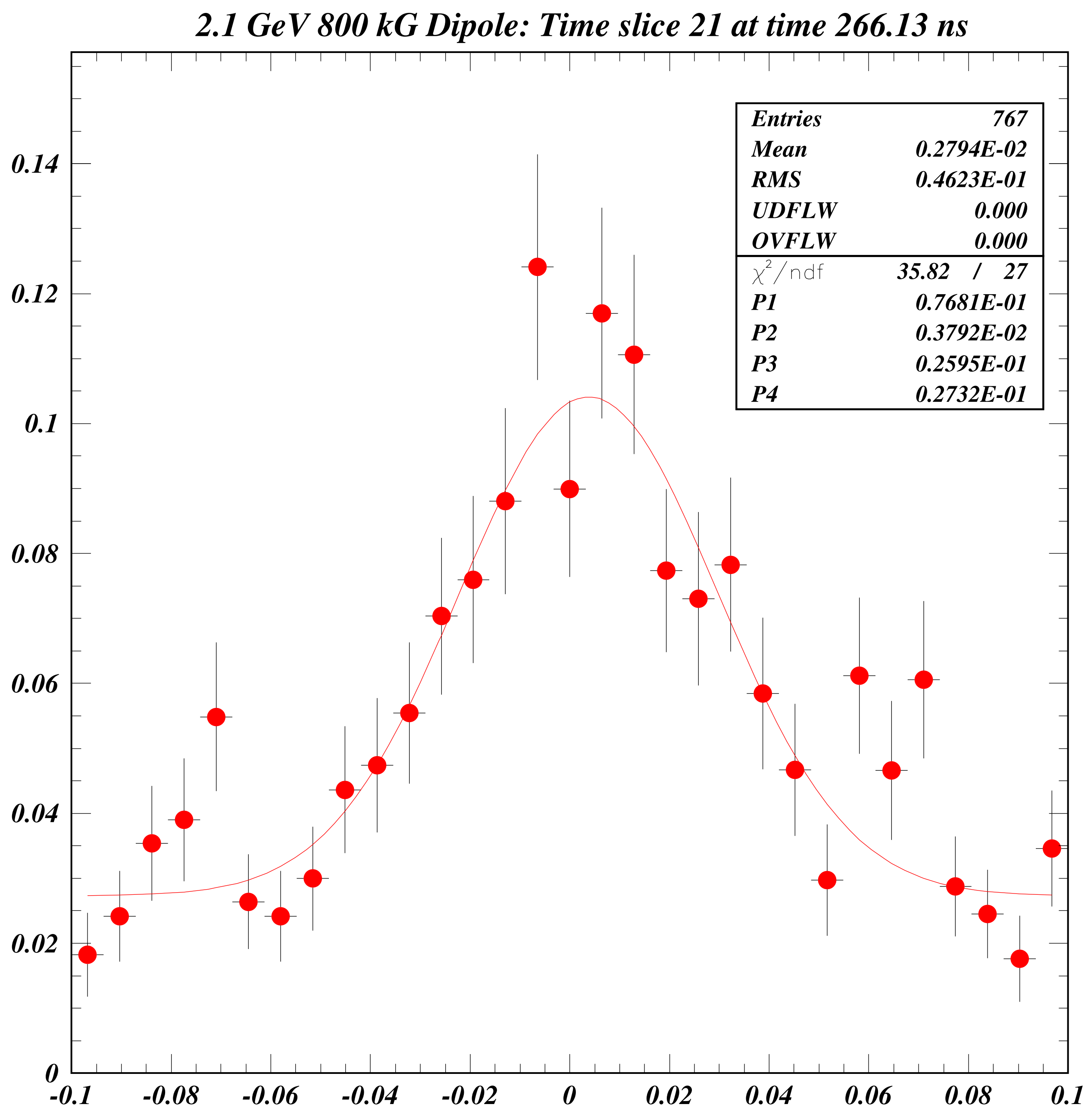
15/09/29 11.38
Snapshot after bunch 20 at time = 266.11 ns
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
Y (cm)
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1
X (cm)
0.03
0.025
0.02
0.015
0.01
0.005
0
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 11.38

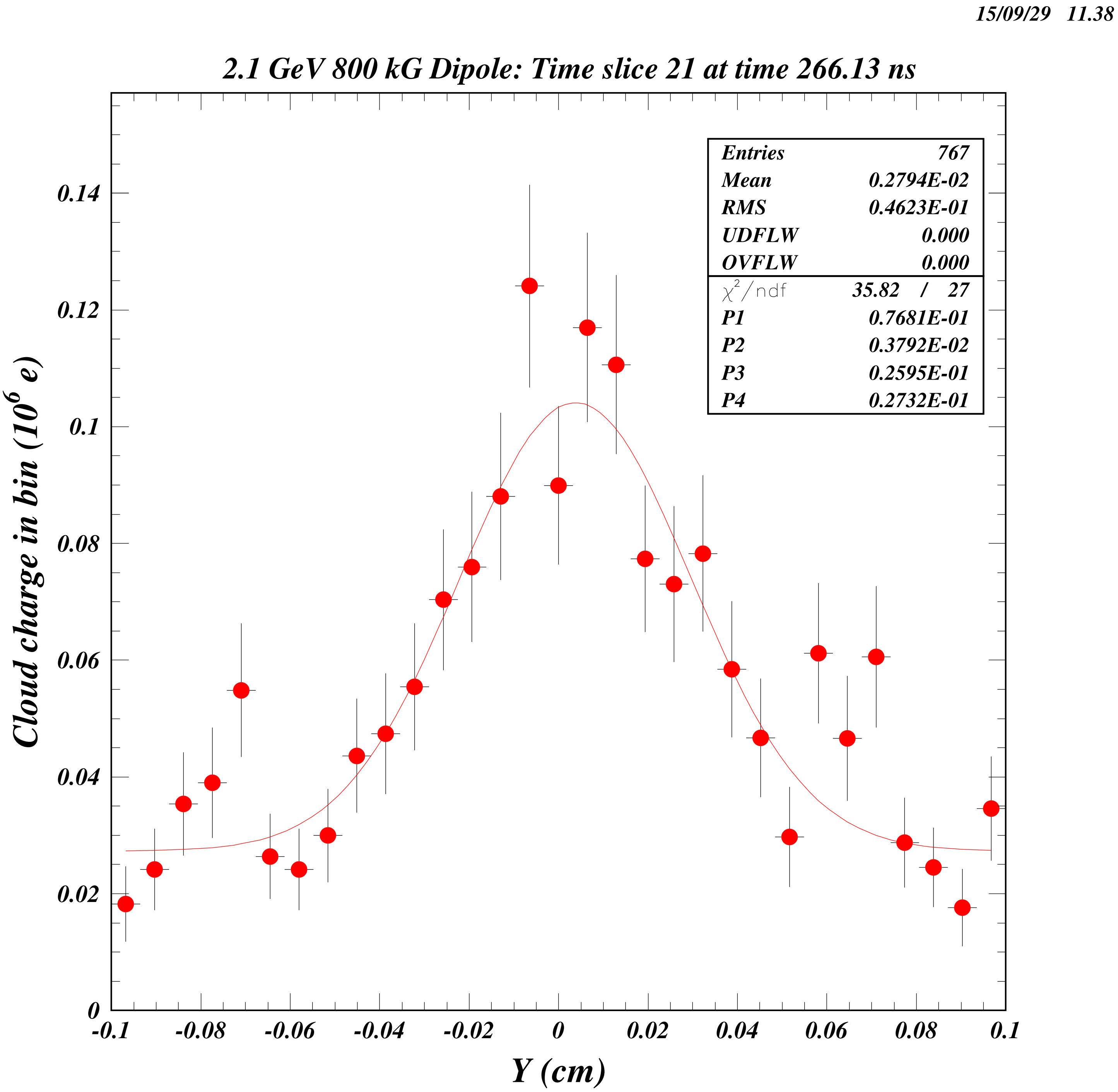

2.1 GeV 800 kG Dipole: Time slice 21 at time 266.13 ns
Entries 767
Mean -0.1505E-02
RMS 0.4663E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 121.8 / 27
P1 0.1038
P2 0.8779E-03
P3 -0.1421E-01
P4 0.2720E-01
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 21 at time 266.13 ns
Entries 767
Mean -0.1505E-02
RMS 0.4663E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 121.8 / 27
P1 0.1038
P2 0.8779E-03
P3 -0.1421E-01
P4 0.2720E-01
Cloud charge in bin (10^6 e)
X (cm)
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

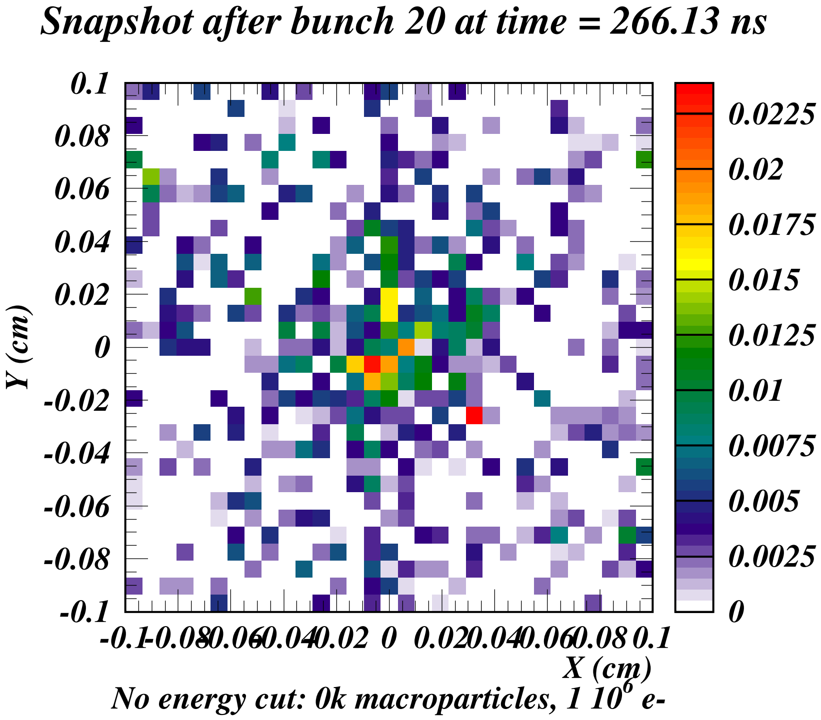
15/09/29 11.38

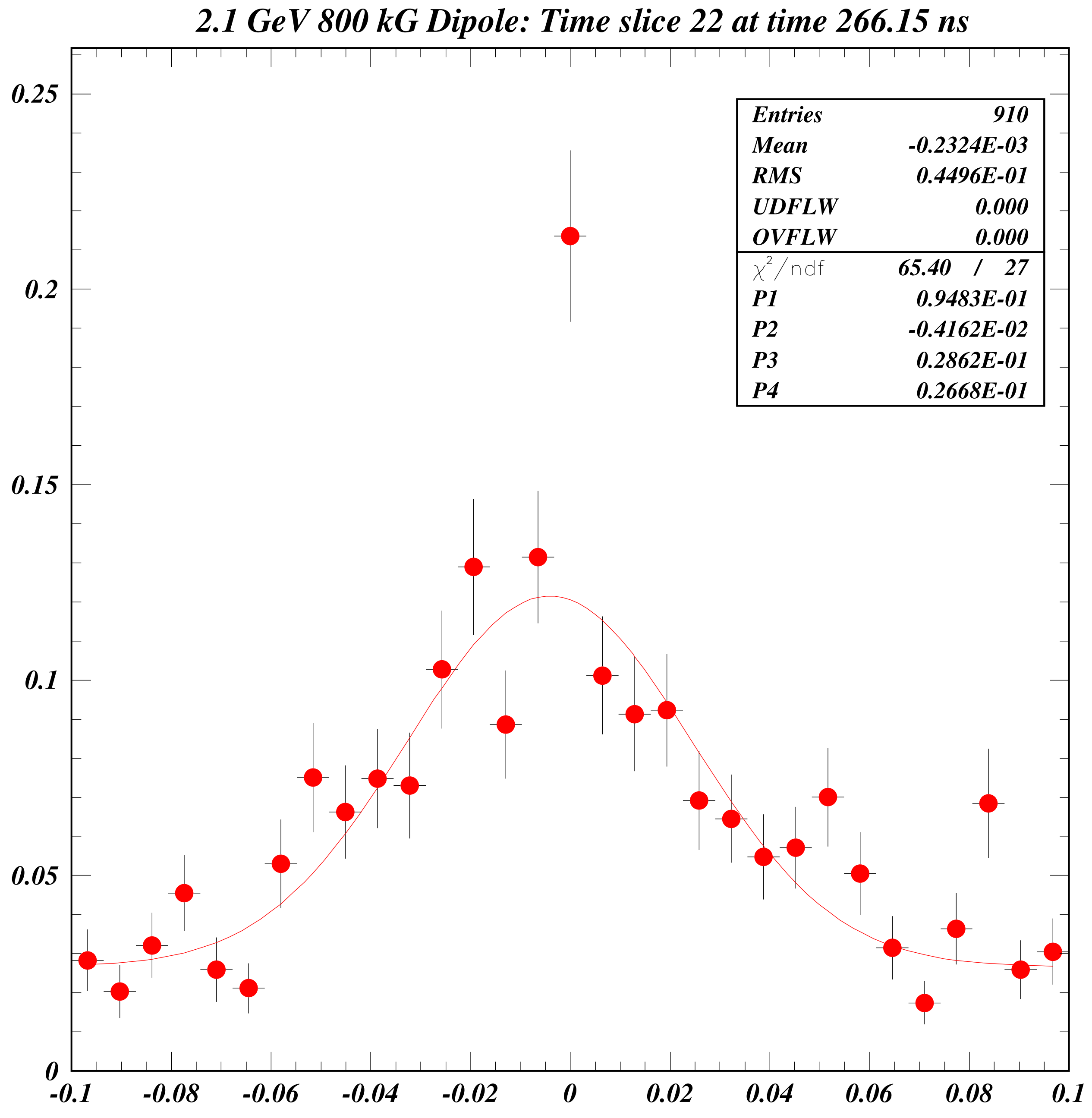


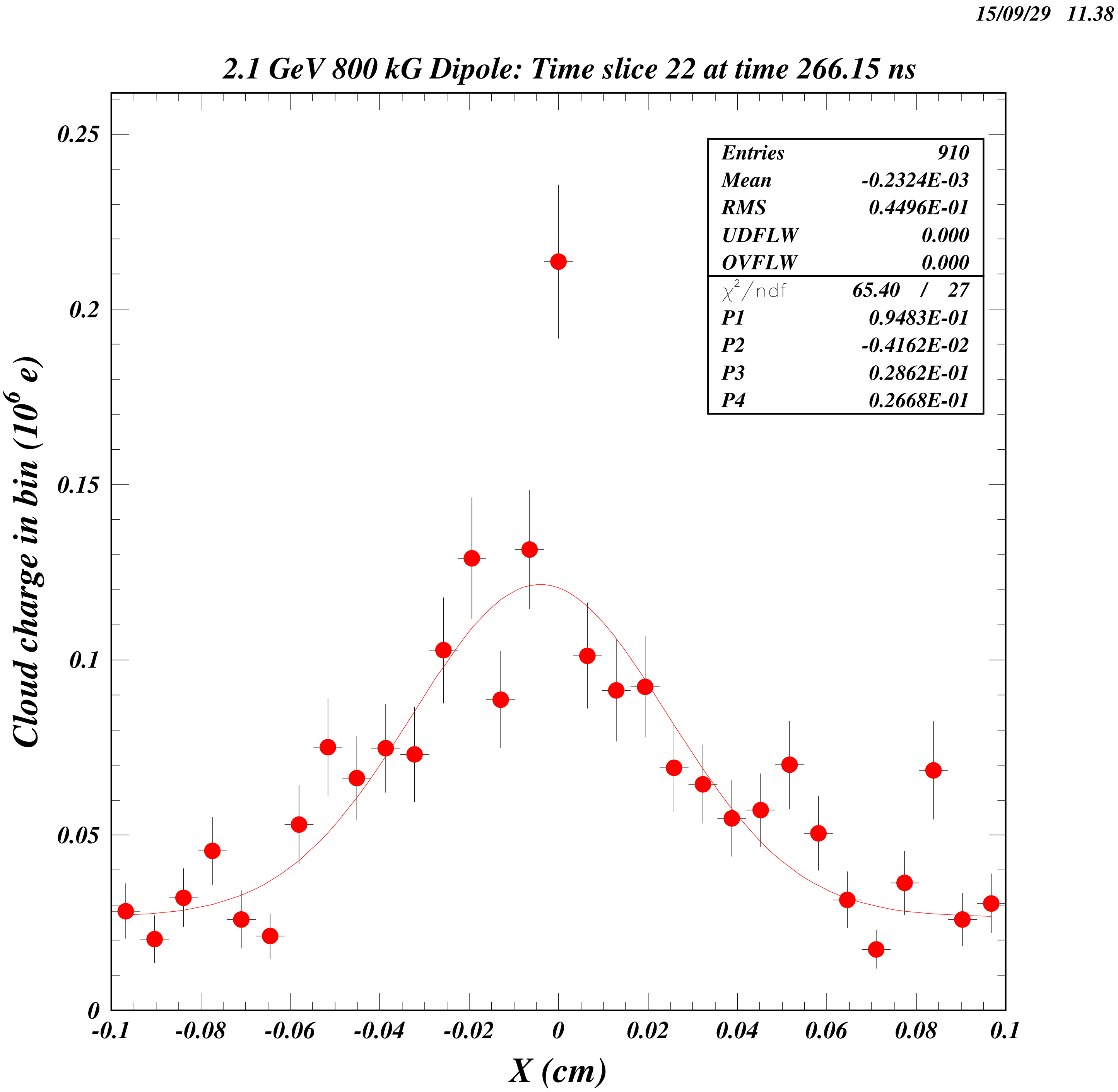
2.1 GeV 800 kG Dipole: Time slice 21 at time 266.13 ns
Entries 767
Mean 0.2794E-02
RMS 0.4623E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.82 / 27
P1 0.7681E-01
P2 0.3792E-02
P3 0.2595E-01
P4 0.2732E-01
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 21 at time 266.13 ns
Entries 767
Mean 0.2794E-02
RMS 0.4623E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 35.82 / 27
P1 0.7681E-01
P2 0.3792E-02
P3 0.2595E-01
P4 0.2732E-01
Cloud charge in bin (10^6 e)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
Y (cm)

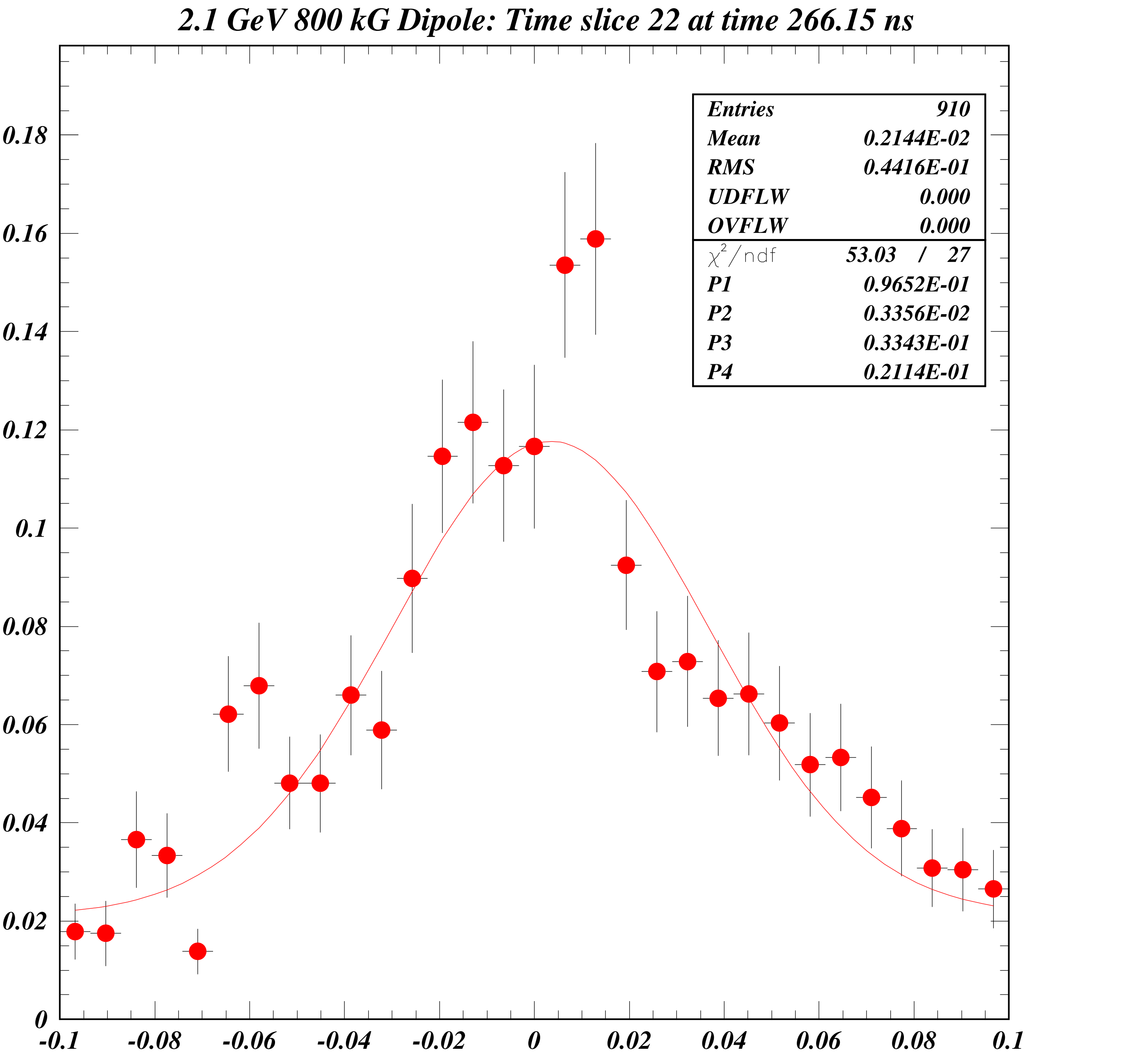
15/09/29 11.38


Snapshot after bunch 20 at time = 266.13 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
No energy cut: 0k macroparticles, 1 10^6 e-


2.1 GeV 800 kG Dipole: Time slice 22 at time 266.15 ns
Entries 910
Mean -0.2324E-03
RMS 0.4496E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 65.40 / 27
P1 0.9483E-01
P2 -0.4162E-02
P3 0.2862E-01
P4 0.2668E-01
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

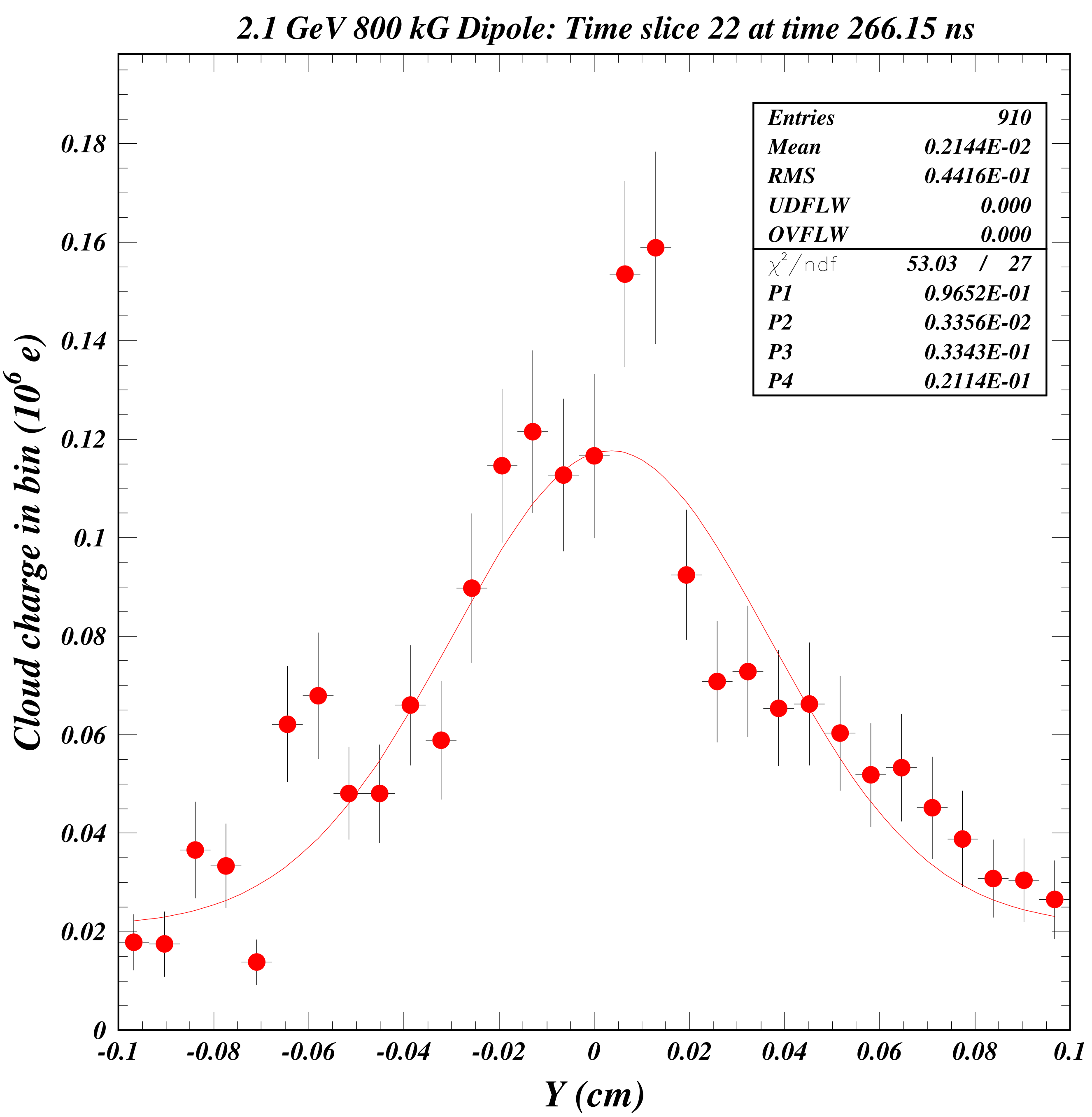

15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 22 at time 266.15 ns
Entries 910
Mean -0.2324E-03
RMS 0.4496E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 65.40 / 27
P1 0.9483E-01
P2 -0.4162E-02
P3 0.2862E-01
P4 0.2668E-01
Cloud charge in bin (10⁶ e)
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
X (cm)

15/09/29 11.38

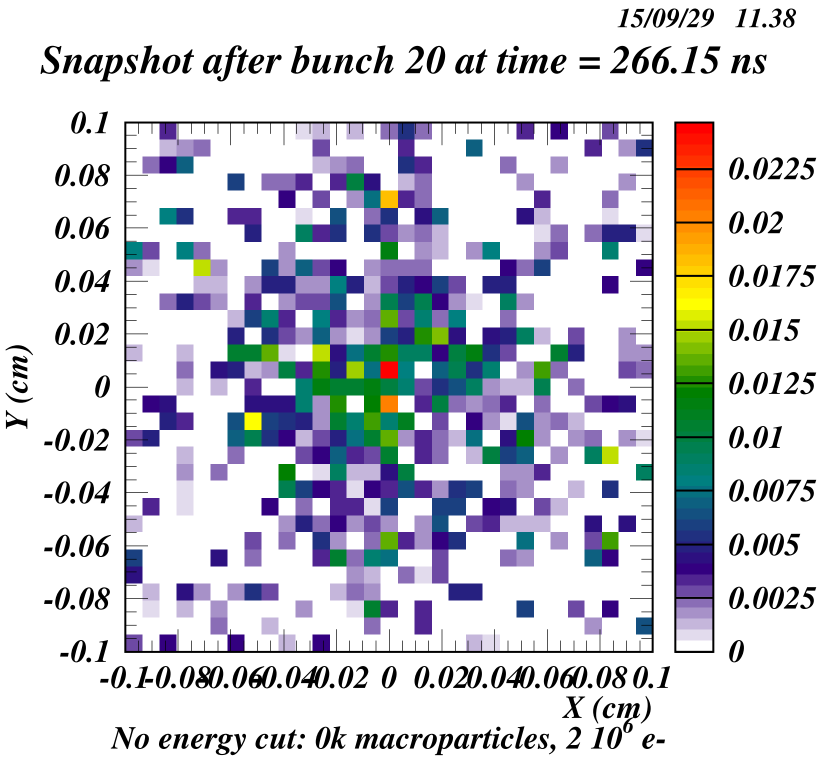


2.1 GeV 800 kG Dipole: Time slice 22 at time 266.15 ns
Entries 910
Mean 0.2144E-02
RMS 0.4416E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 53.03 / 27
P1 0.9652E-01
P2 0.3356E-02
P3 0.3343E-01
P4 0.2114E-01
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38



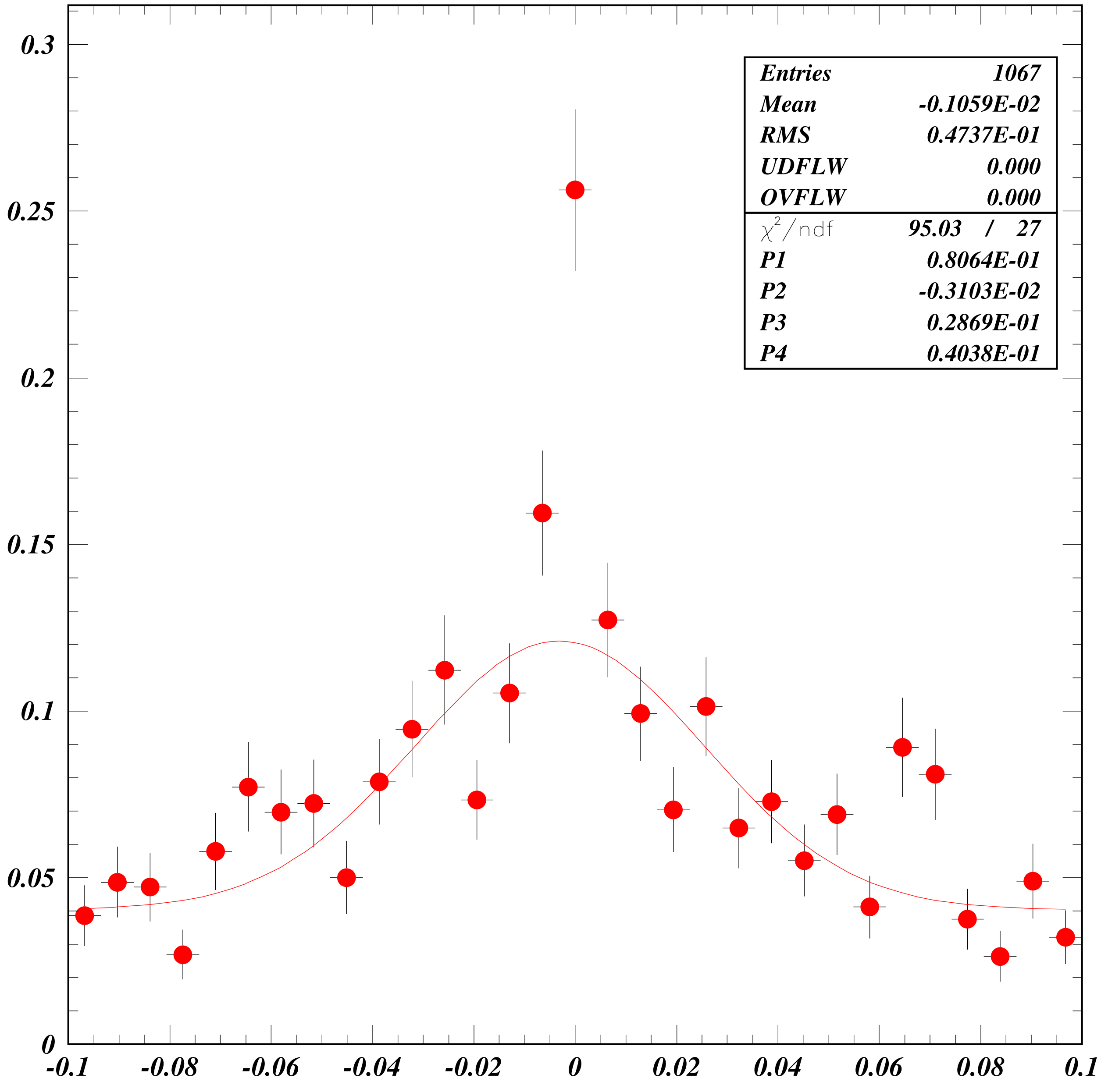
2.1 GeV 800 kG Dipole: Time slice 22 at time 266.15 ns
Entries 910
Mean 0.2144E-02
RMS 0.4416E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 53.03 / 27
P1 0.9652E-01
P2 0.3356E-02
P3 0.3343E-01
P4 0.2114E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



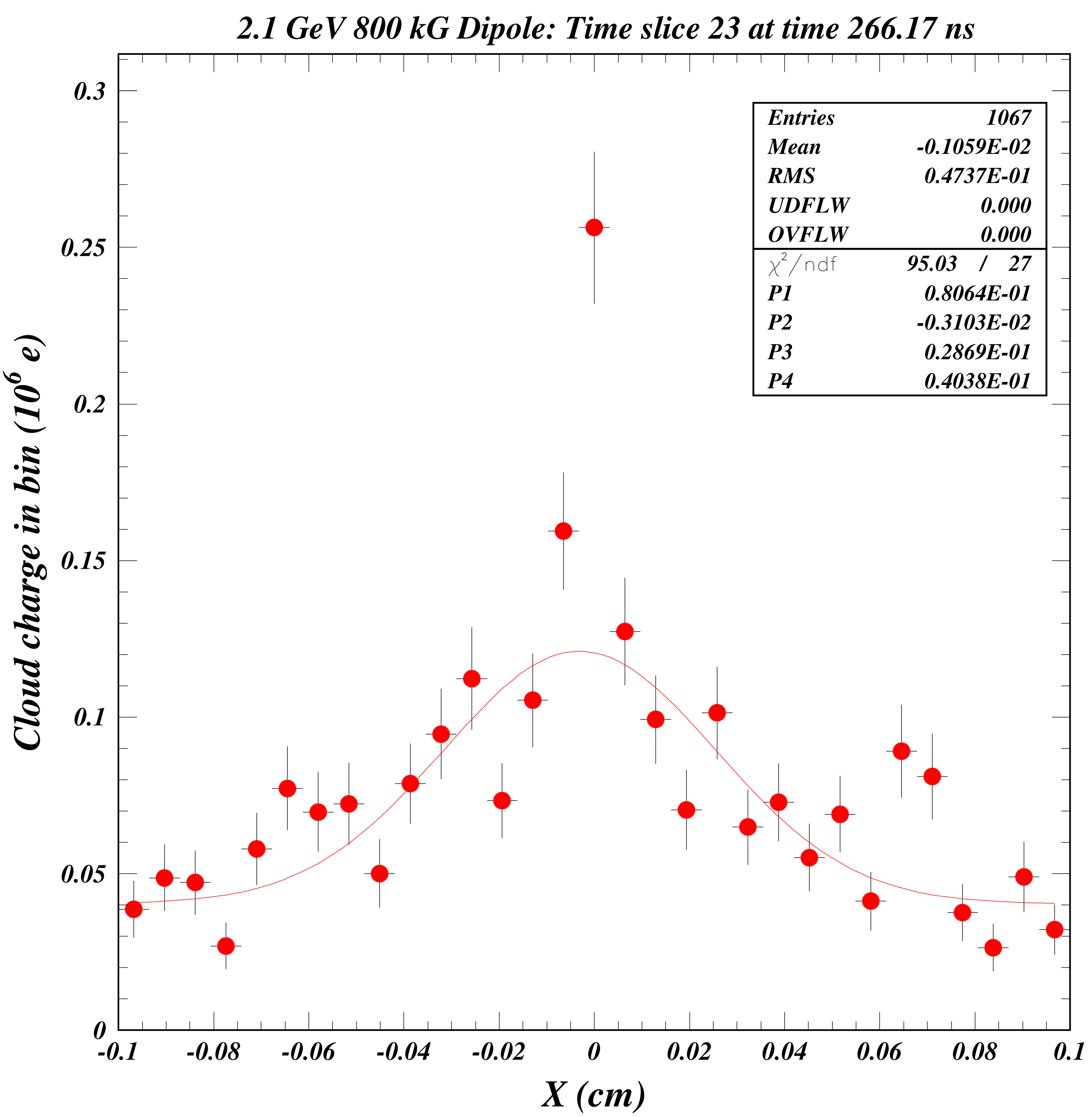
15/09/29 11.38
Snapshot after bunch 20 at time = 266.15 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
No energy cut: 0k macroparticles, 2 10^6 e-

15/09/29 11.38

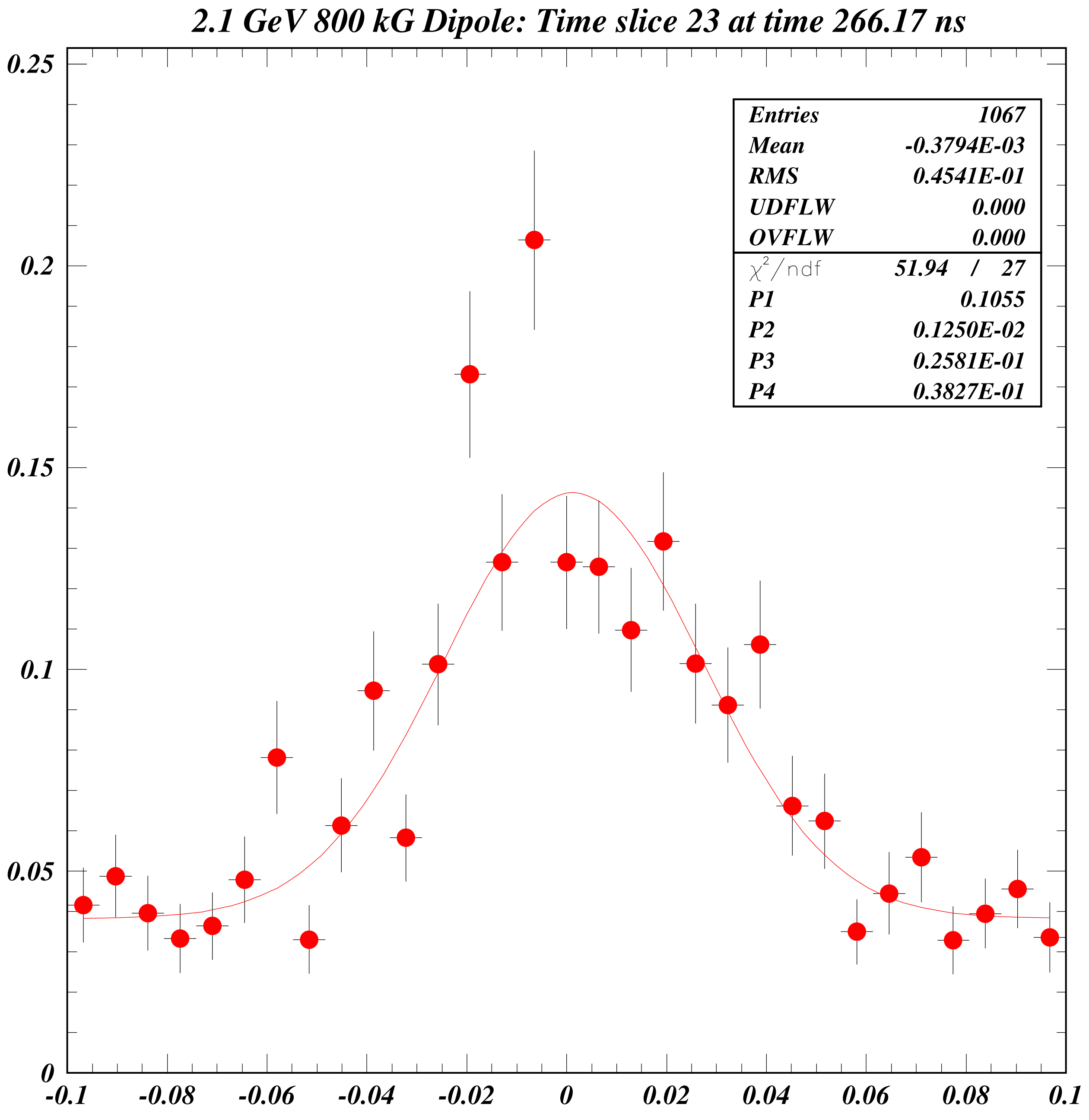
2.1 GeV 800 kG Dipole: Time slice 23 at time 266.17 ns



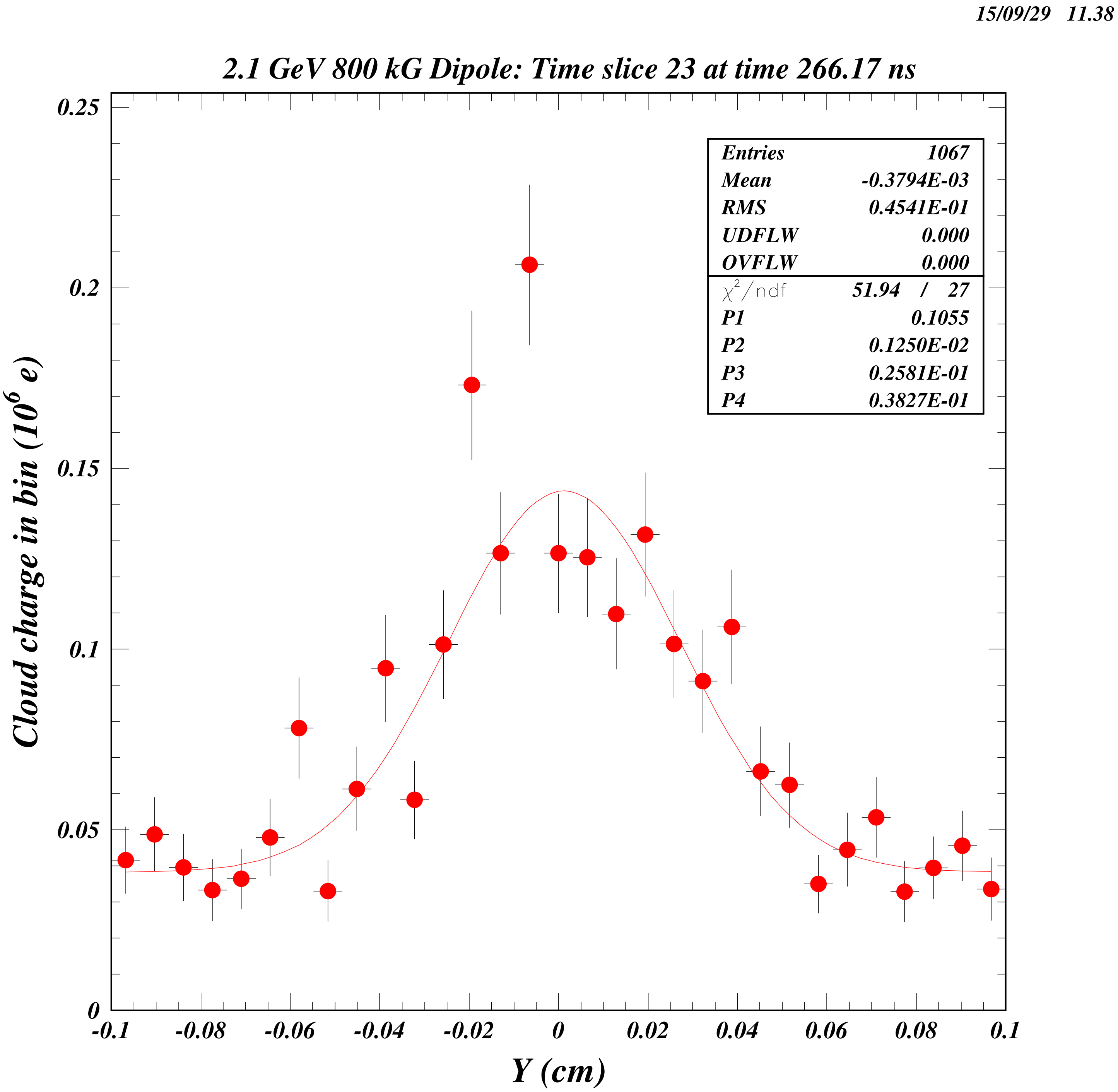
15/09/29 11.38

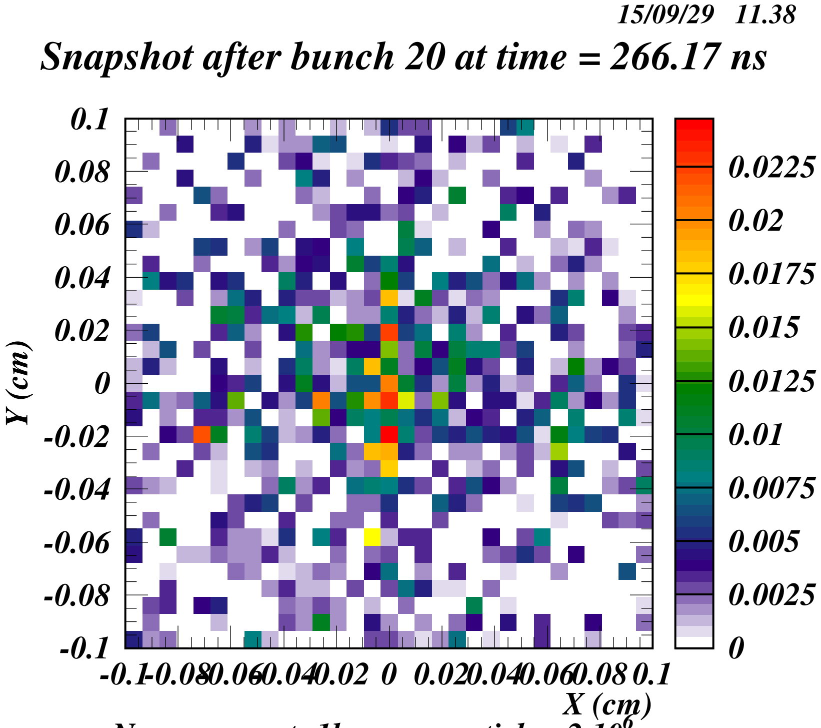

2.1 GeV 800 kG Dipole: Time slice 23 at time 266.17 ns
Entries 1067
Mean -0.1059E-02
RMS 0.4737E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 95.03 / 27
P1 0.8064E-01
P2 -0.3103E-02
P3 0.2869E-01
P4 0.4038E-01
Cloud charge in bin (10^6 e)
X (cm)
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38



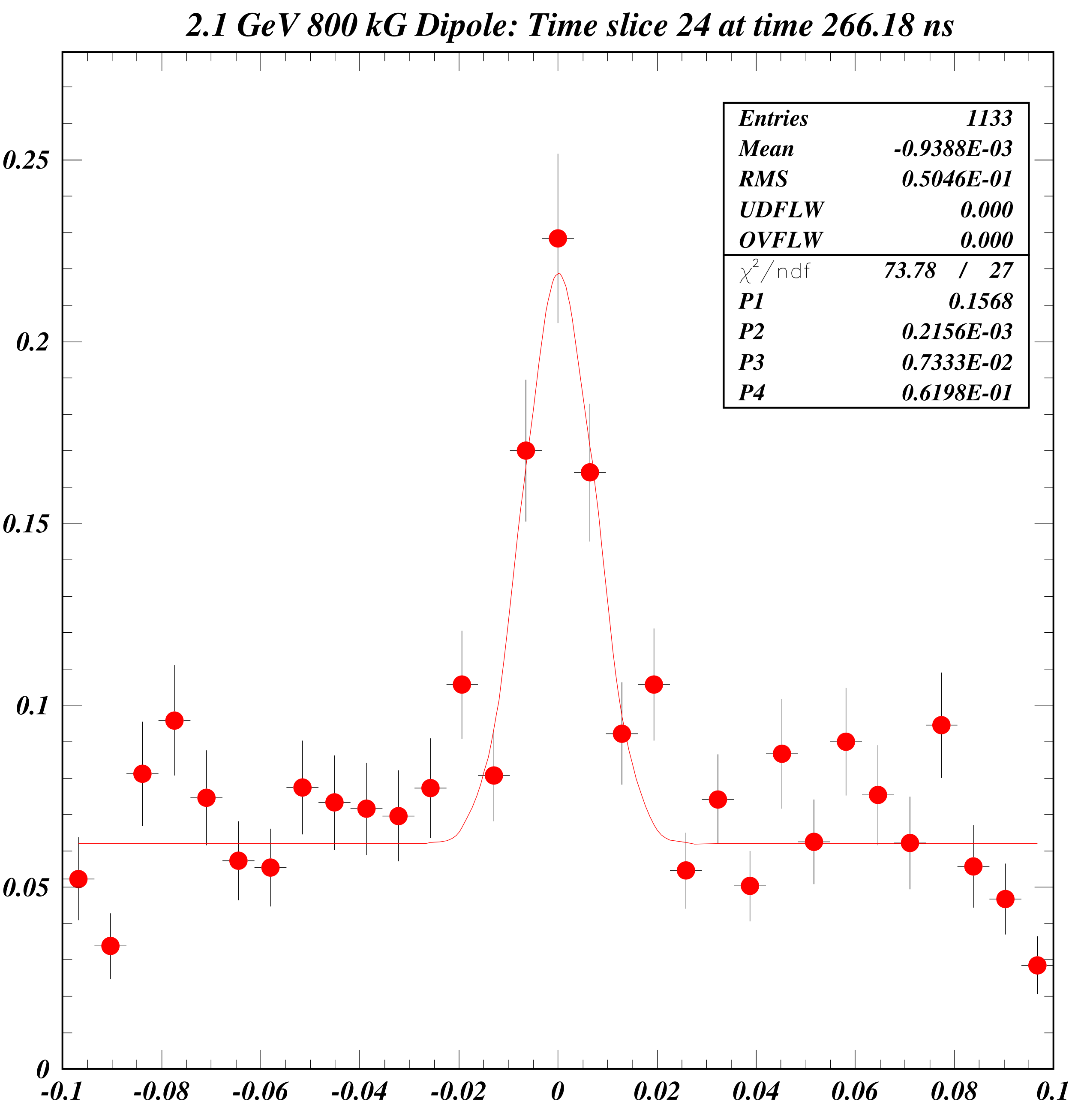
2.1 GeV 800 kG Dipole: Time slice 23 at time 266.17 ns
Entries 1067
Mean -0.3794E-03
RMS 0.4541E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 51.94 / 27
P1 0.1055
P2 0.1250E-02
P3 0.2581E-01
P4 0.3827E-01
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 23 at time 266.17 ns
Entries 1067
Mean -0.3794E-03
RMS 0.4541E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 51.94 / 27
P1 0.1055
P2 0.1250E-02
P3 0.2581E-01
P4 0.3827E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



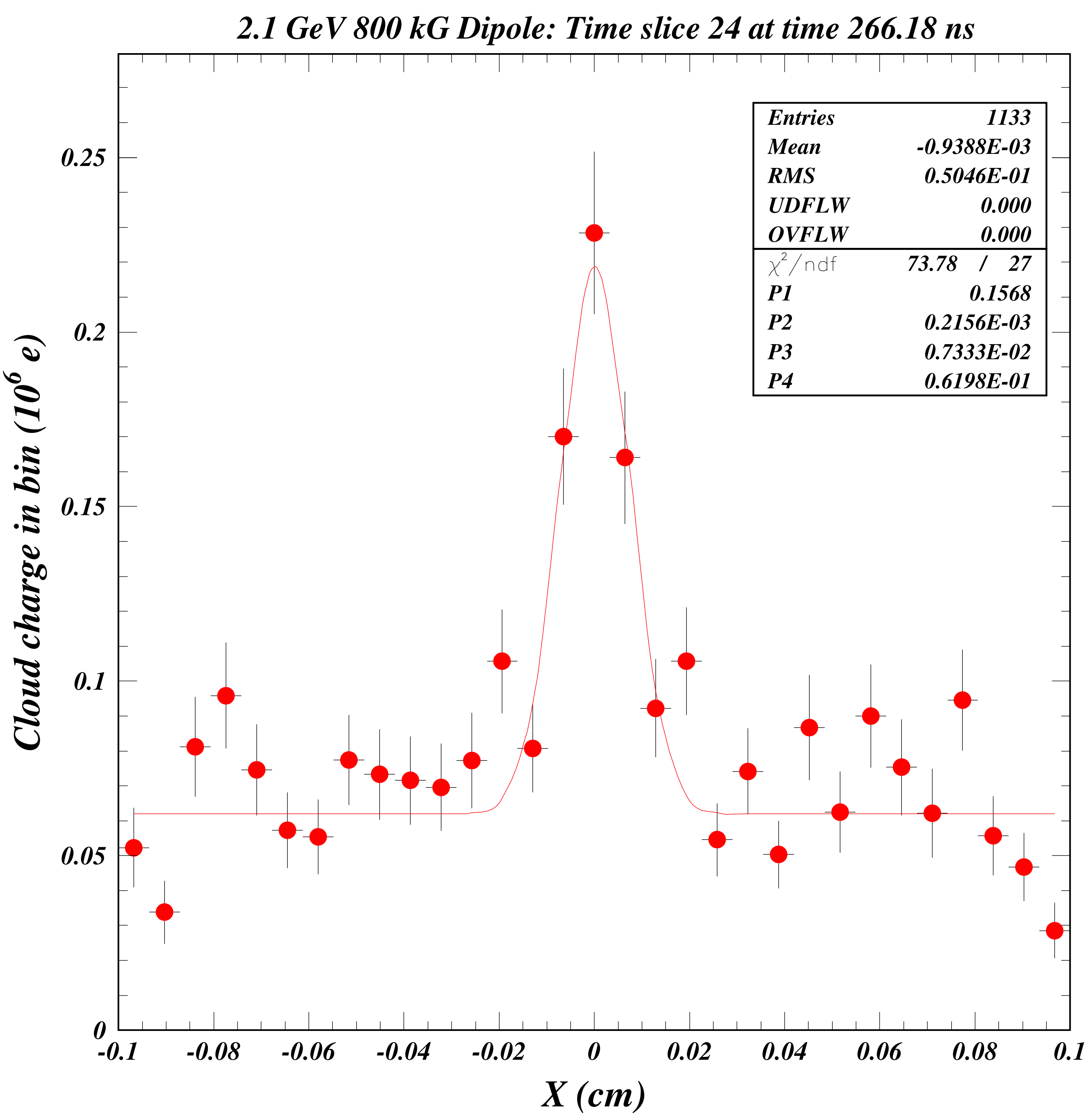
No energy cut: 1k macroparticles, 2 10^6 e-

15/09/29 11.38



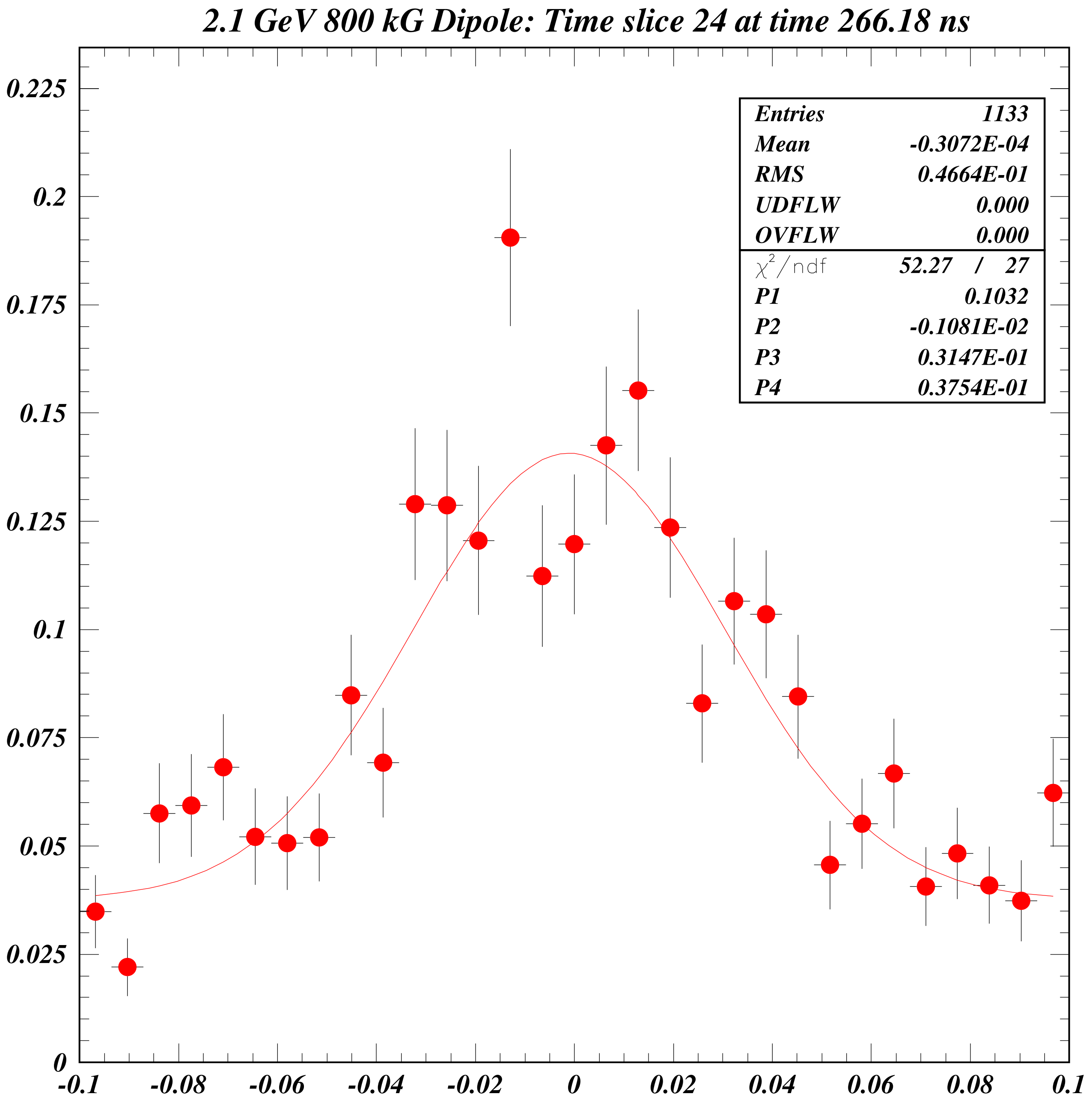
2.1 GeV 800 kG Dipole: Time slice 24 at time 266.18 ns
Entries 1133
Mean -0.9388E-03
RMS 0.5046E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 73.78 / 27
P1 0.1568
P2 0.2156E-03
P3 0.7333E-02
P4 0.6198E-01
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

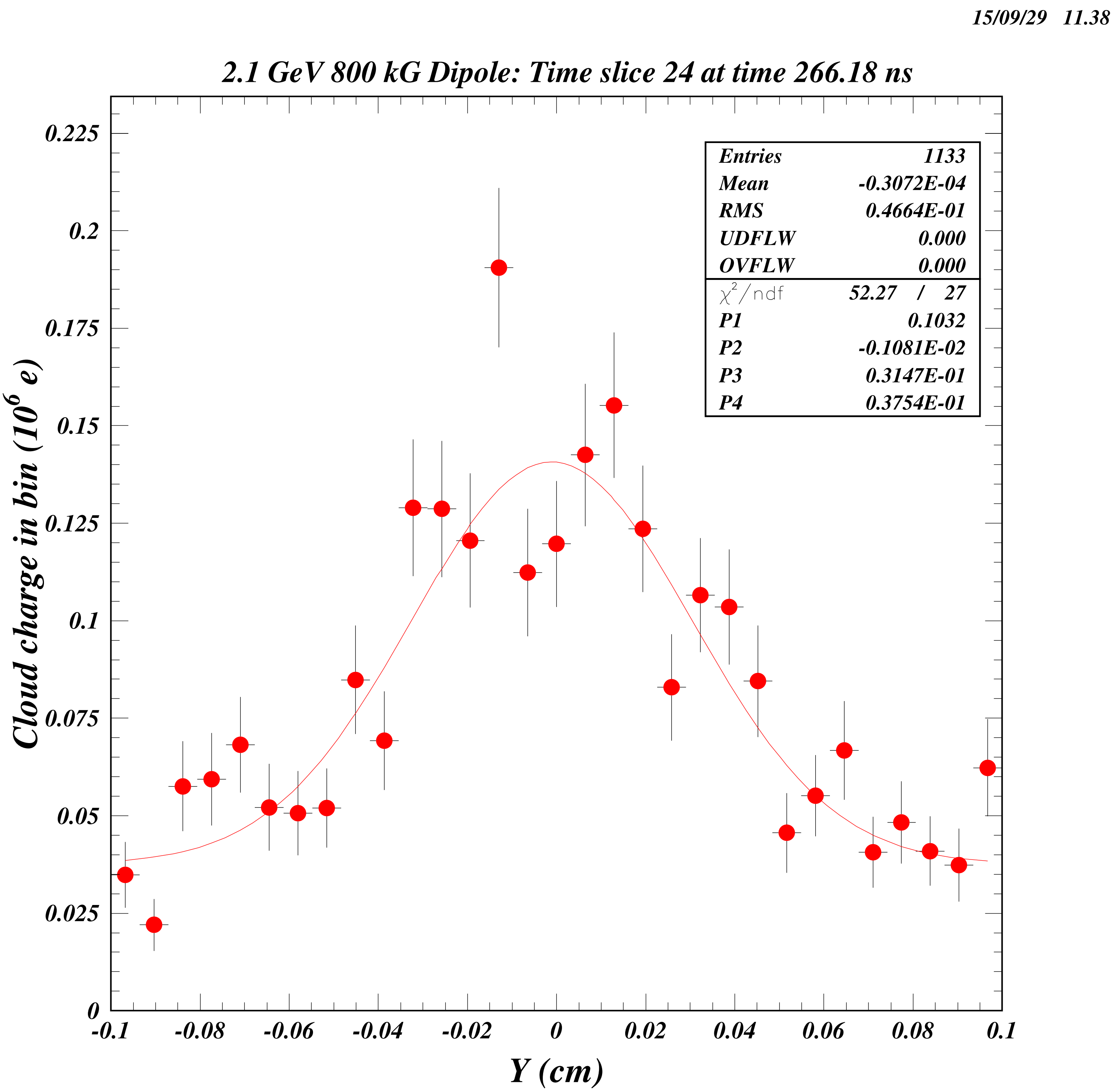
15/09/29 11.38



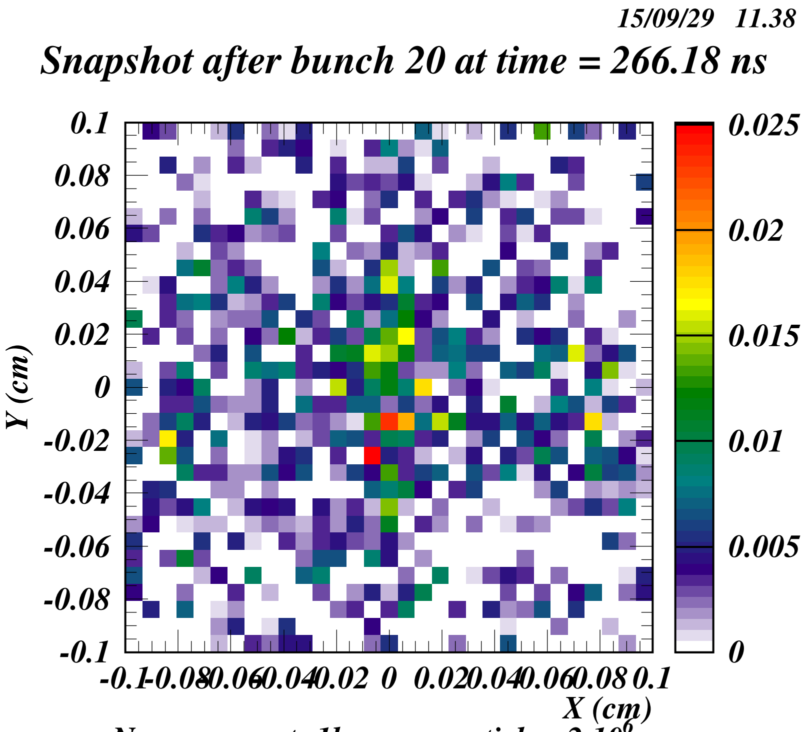
2.1 GeV 800 kG Dipole: Time slice 24 at time 266.18 ns
Entries 1133
Mean -0.9388E-03
RMS 0.5046E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 73.78 / 27
P1 0.1568
P2 0.2156E-03
P3 0.7333E-02
P4 0.6198E-01
Cloud charge in bin (10⁶ e)
X (cm)
0
0.05
0.1
0.15
0.2
0.25
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38


2.1 GeV 800 kG Dipole: Time slice 24 at time 266.18 ns
Entries 1133
Mean -0.3072E-04
RMS 0.4664E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 52.27 / 27
P1 0.1032
P2 -0.1081E-02
P3 0.3147E-01
P4 0.3754E-01
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

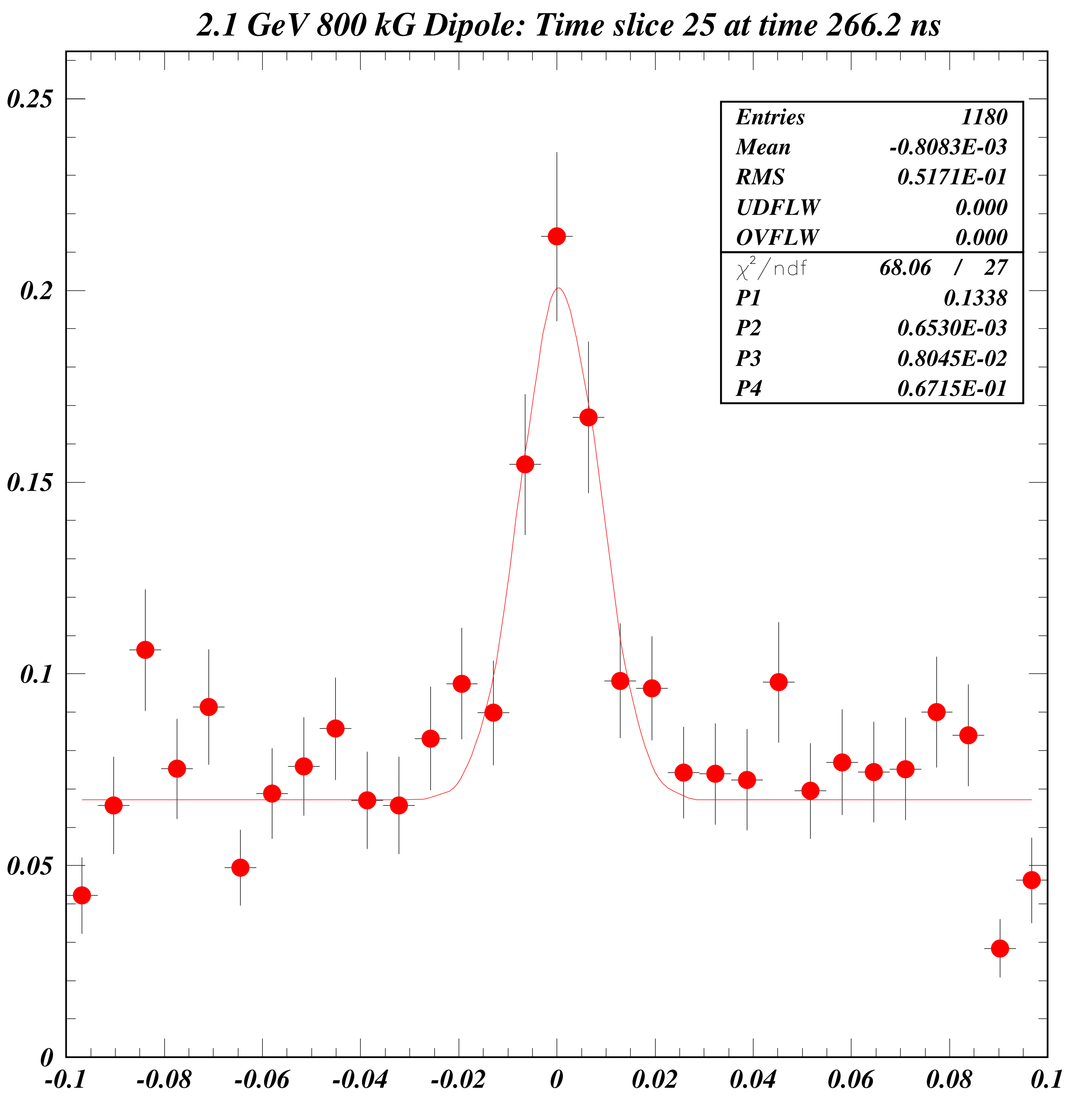


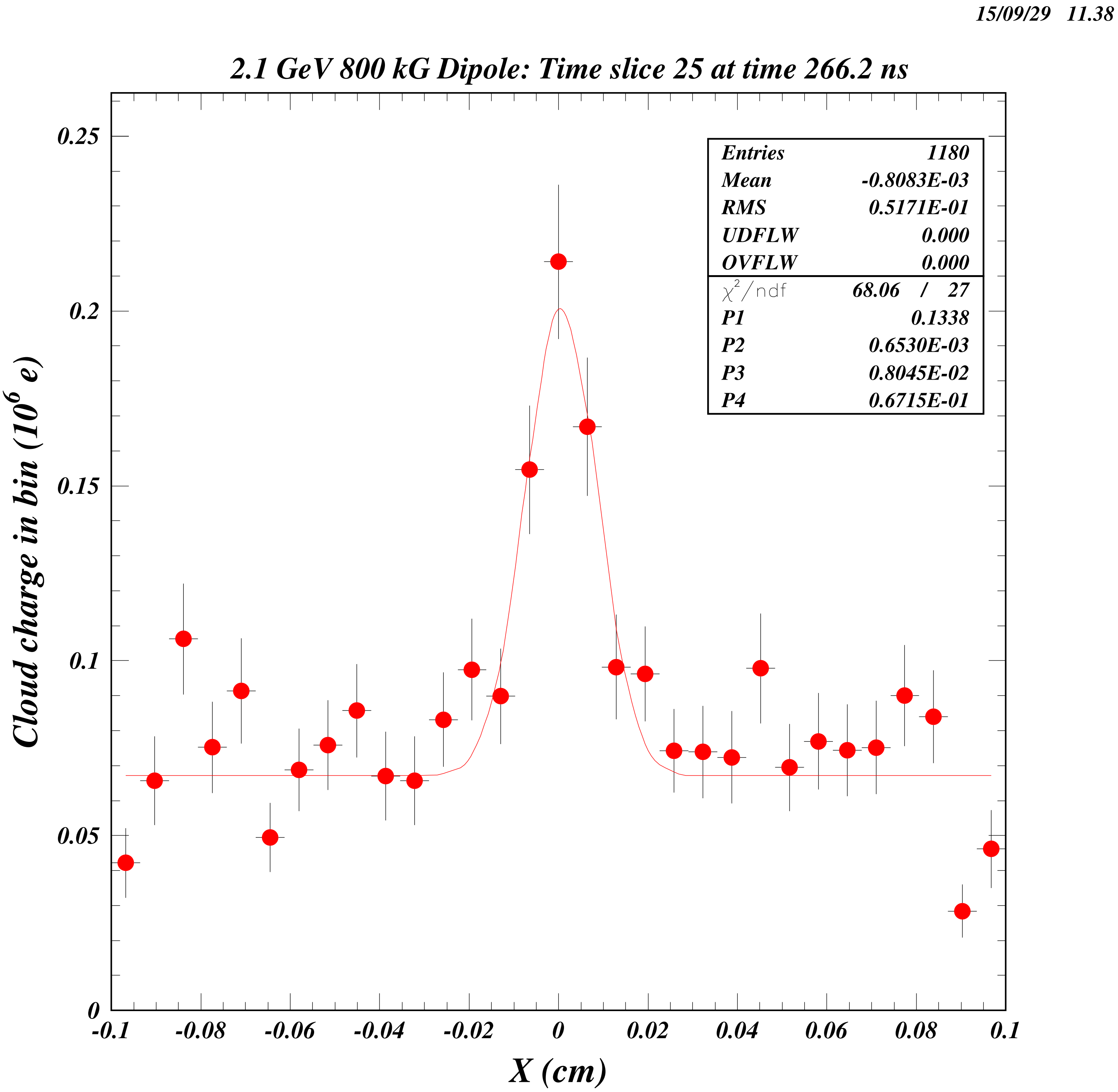
15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 24 at time 266.18 ns
Entries 1133
Mean -0.3072E-04
RMS 0.4664E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 52.27 / 27
P1 0.1032
P2 -0.1081E-02
P3 0.3147E-01
P4 0.3754E-01
Cloud charge in bin (10⁶ e)
Y (cm)



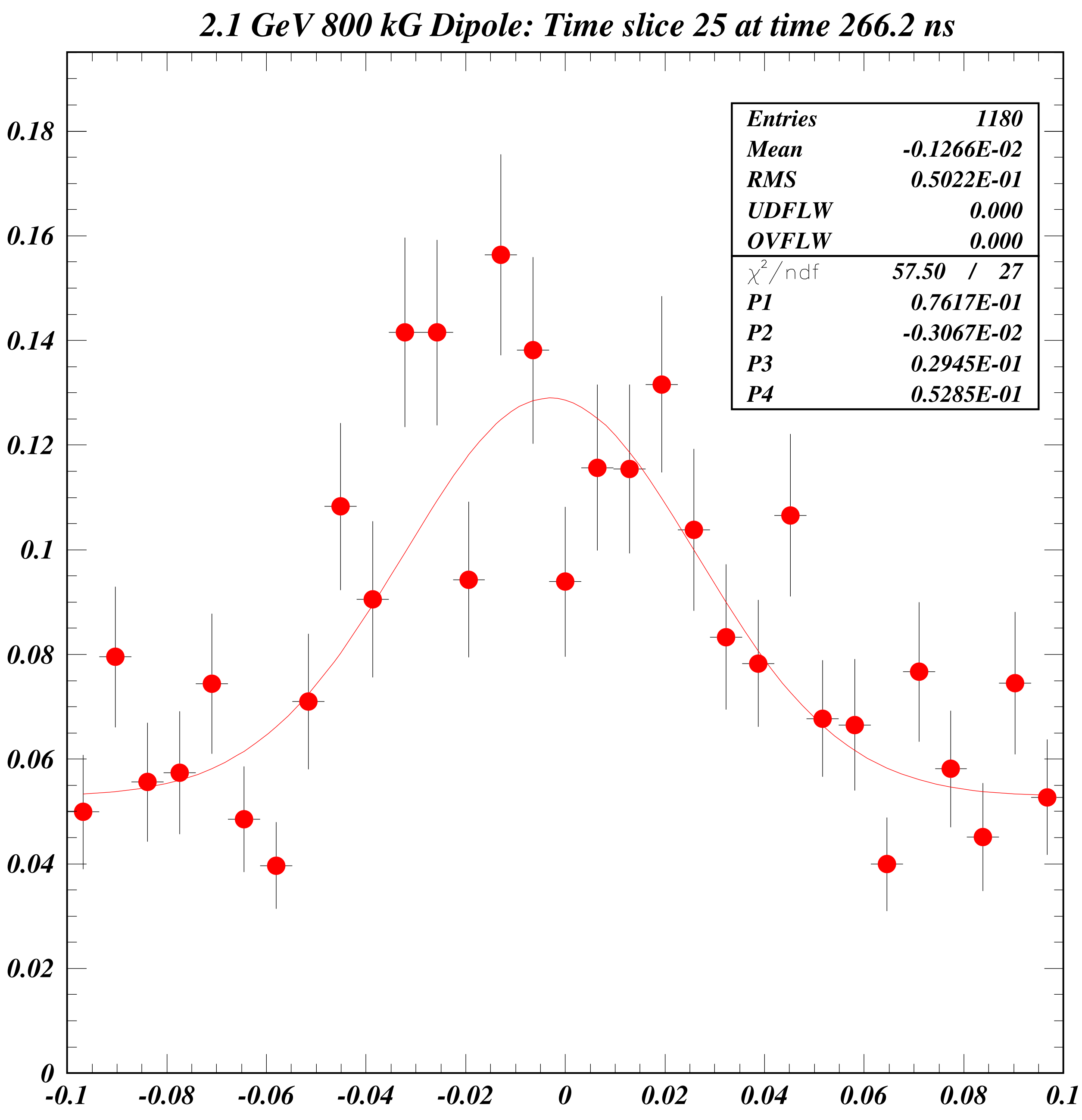
No energy cut: 1k macroparticles, 2 10^6 e-

15/09/29 11.38

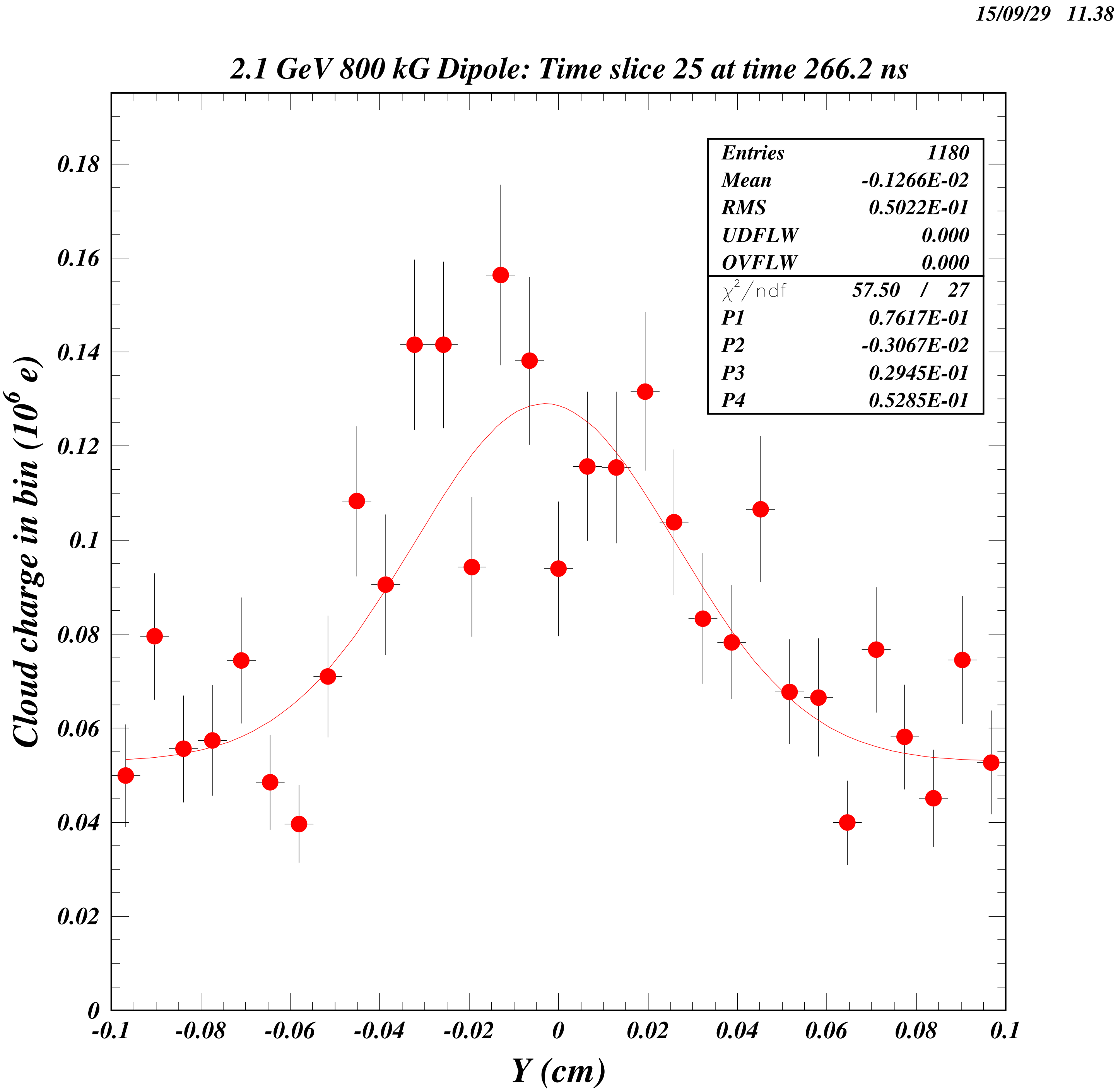

2.1 GeV 800 kG Dipole: Time slice 25 at time 266.2 ns
Entries 1180
Mean -0.8083E-03
RMS 0.5171E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 68.06 / 27
P1 0.1338
P2 0.6530E-03
P3 0.8045E-02
P4 0.6715E-01
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

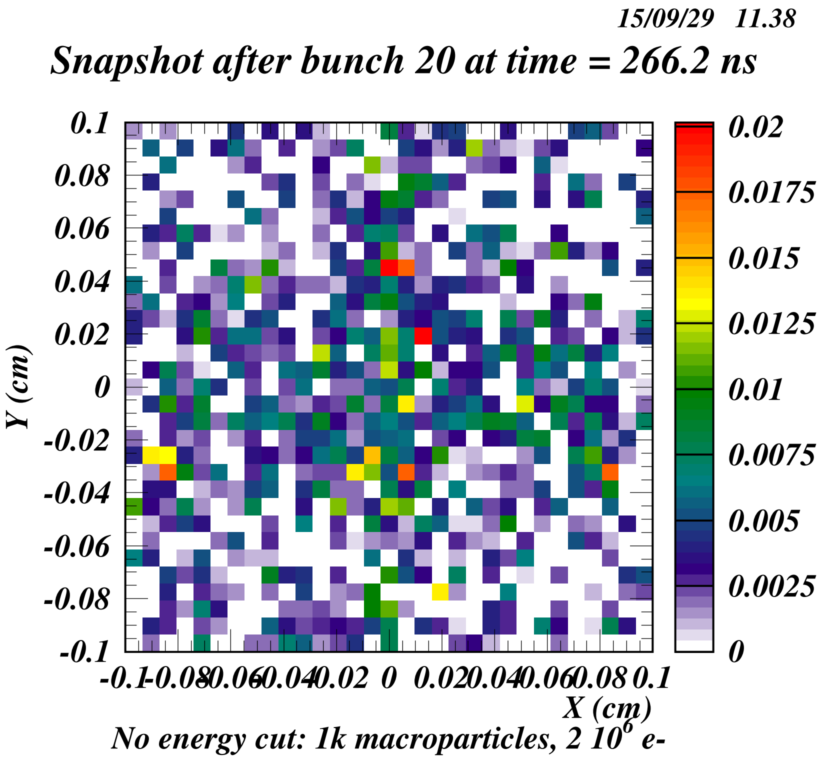

15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 25 at time 266.2 ns
Entries 1180
Mean -0.8083E-03
RMS 0.5171E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 68.06 / 27
P1 0.1338
P2 0.6530E-03
P3 0.8045E-02
P4 0.6715E-01
Cloud charge in bin (10⁶ e)
X (cm)

15/09/29 11.38

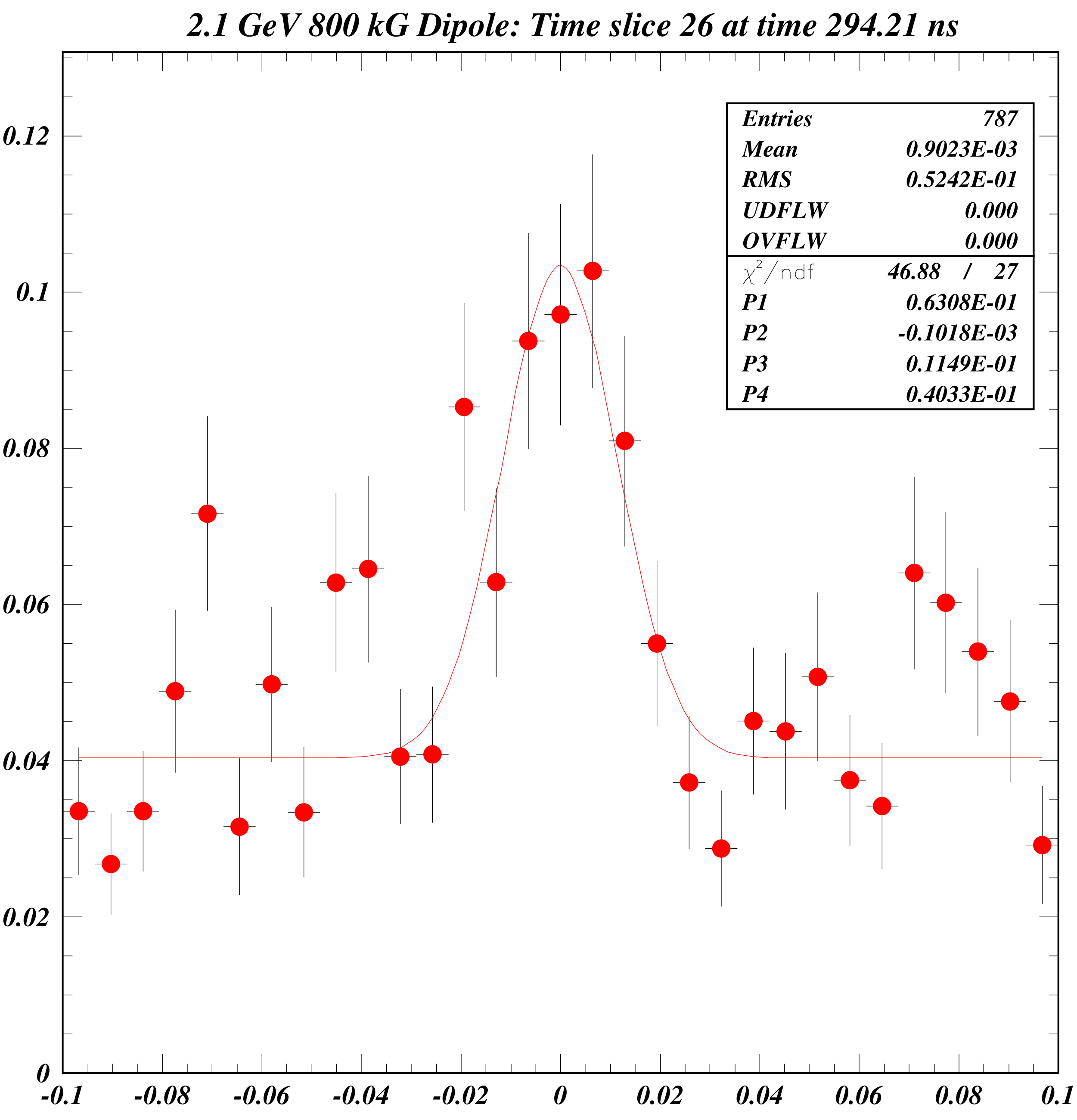


2.1 GeV 800 kG Dipole: Time slice 25 at time 266.2 ns
Entries 1180
Mean -0.1266E-02
RMS 0.5022E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 57.50 / 27
P1 0.7617E-01
P2 -0.3067E-02
P3 0.2945E-01
P4 0.5285E-01
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

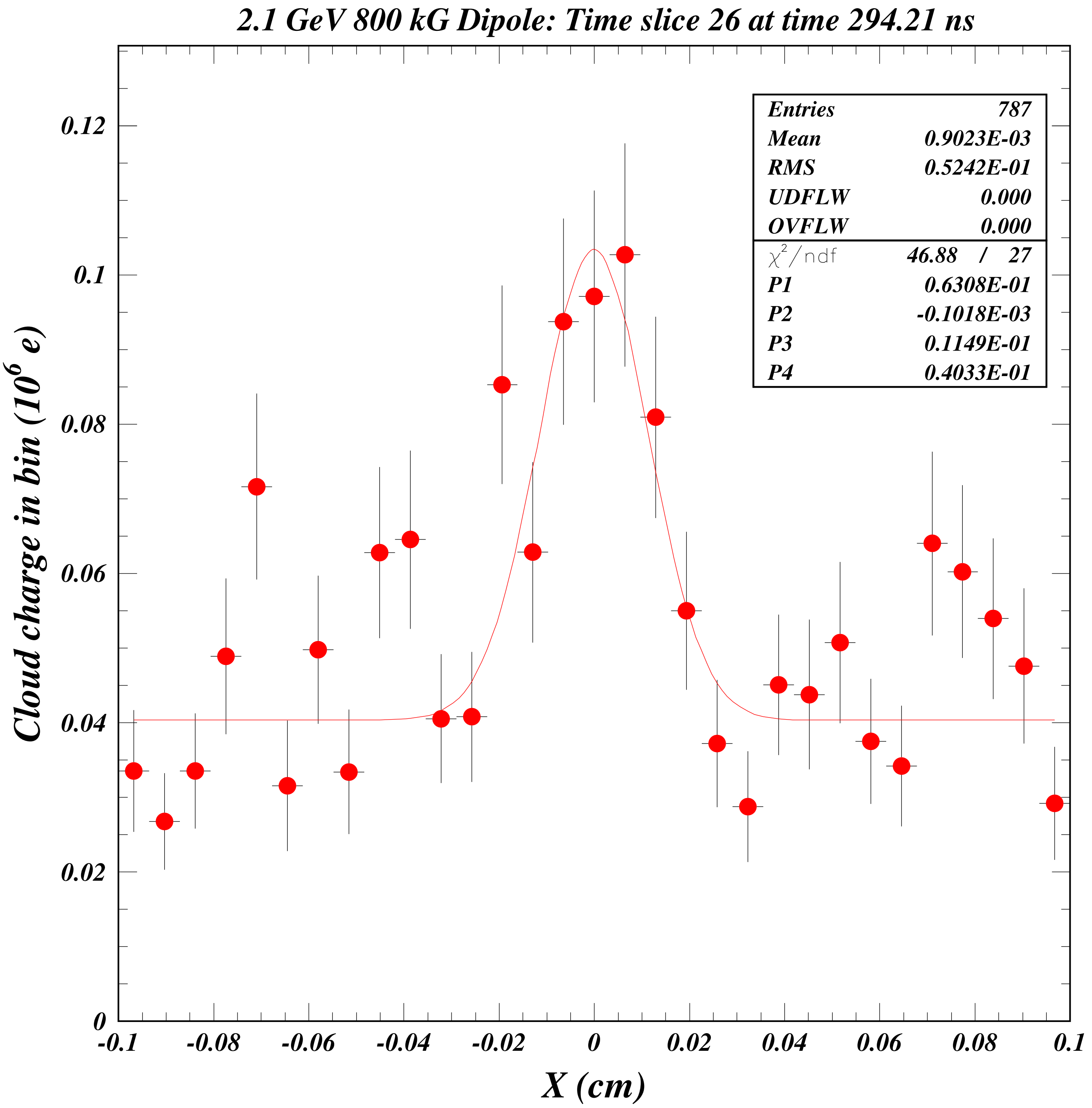

15/09/29 11.38
2.1 GeV 800 kG Dipole: Time slice 25 at time 266.2 ns
Entries 1180
Mean -0.1266E-02
RMS 0.5022E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 57.50 / 27
P1 0.7617E-01
P2 -0.3067E-02
P3 0.2945E-01
P4 0.5285E-01
Cloud charge in bin (10⁶ e)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
Y (cm)


15/09/29 11.38
Snapshot after bunch 20 at time = 266.2 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
No energy cut: 1k macroparticles, 2 10^6 e-

15/09/29 11.38

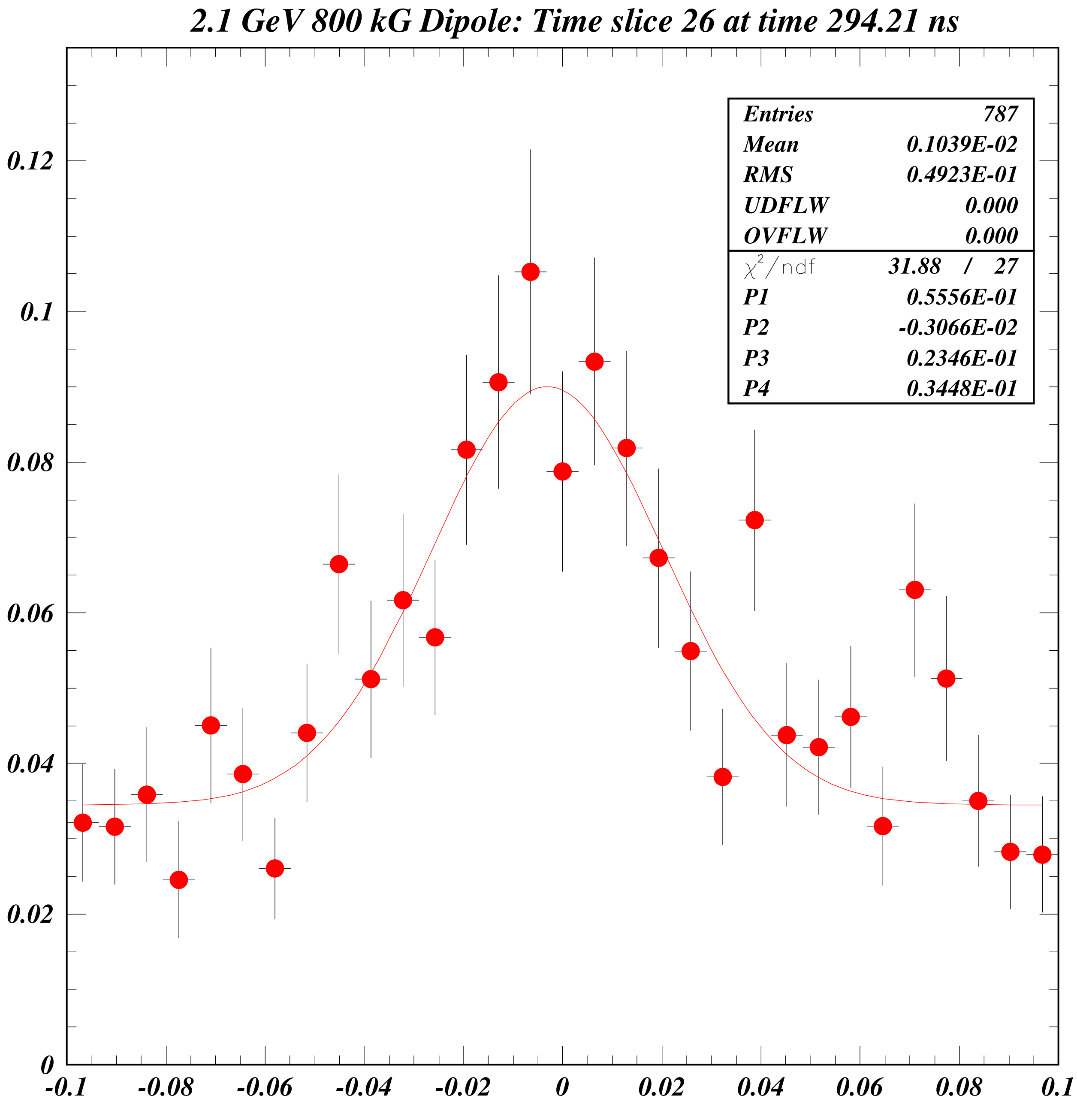

2.1 GeV 800 kG Dipole: Time slice 26 at time 294.21 ns
Entries 787
Mean 0.9023E-03
RMS 0.5242E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 46.88 / 27
P1 0.6308E-01
P2 -0.1018E-03
P3 0.1149E-01
P4 0.4033E-01
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

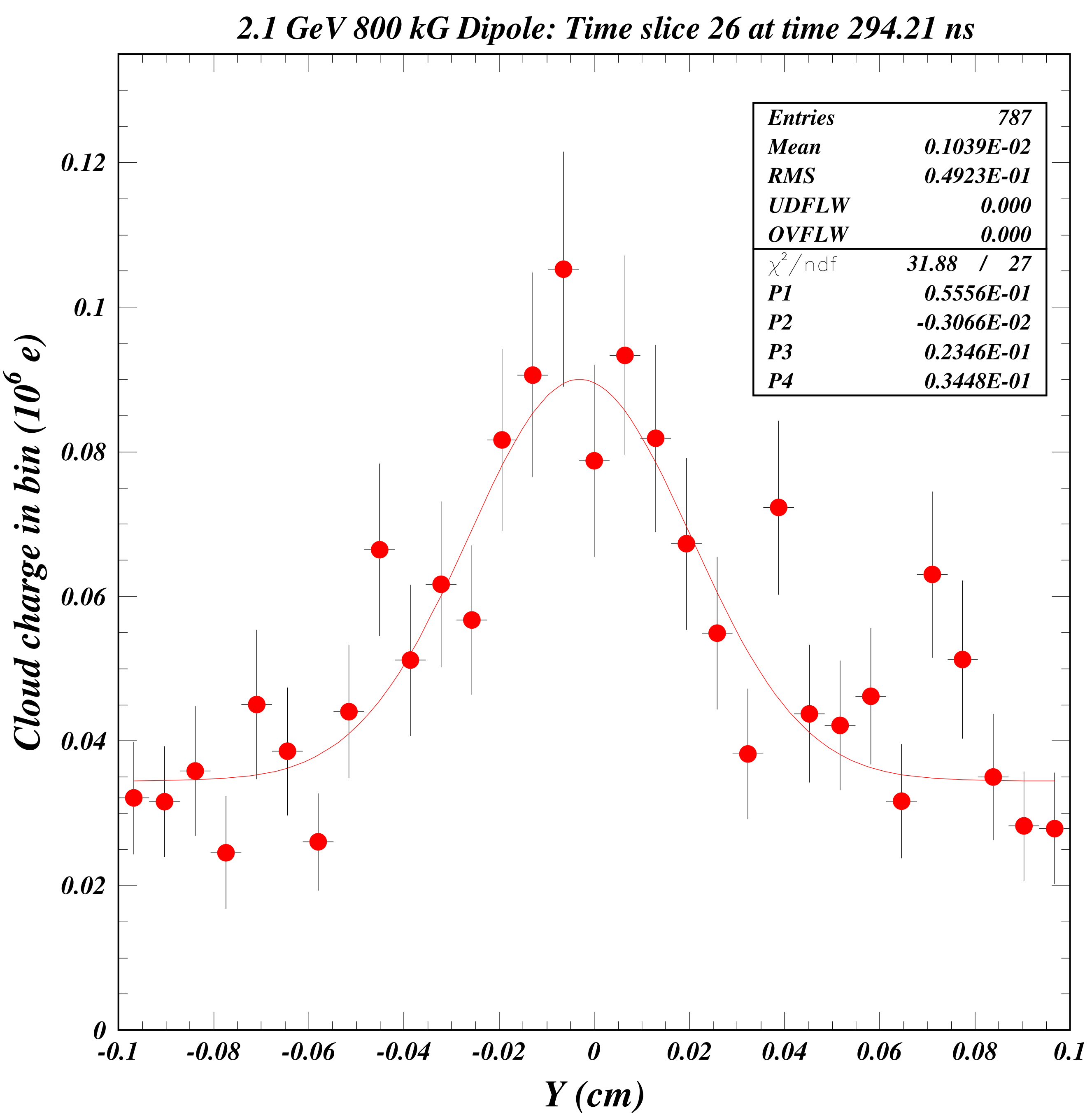


2.1 GeV 800 kG Dipole: Time slice 26 at time 294.21 ns
Entries 787
Mean 0.9023E-03
RMS 0.5242E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 46.88 / 27
P1 0.6308E-01
P2 -0.1018E-03
P3 0.1149E-01
P4 0.4033E-01
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

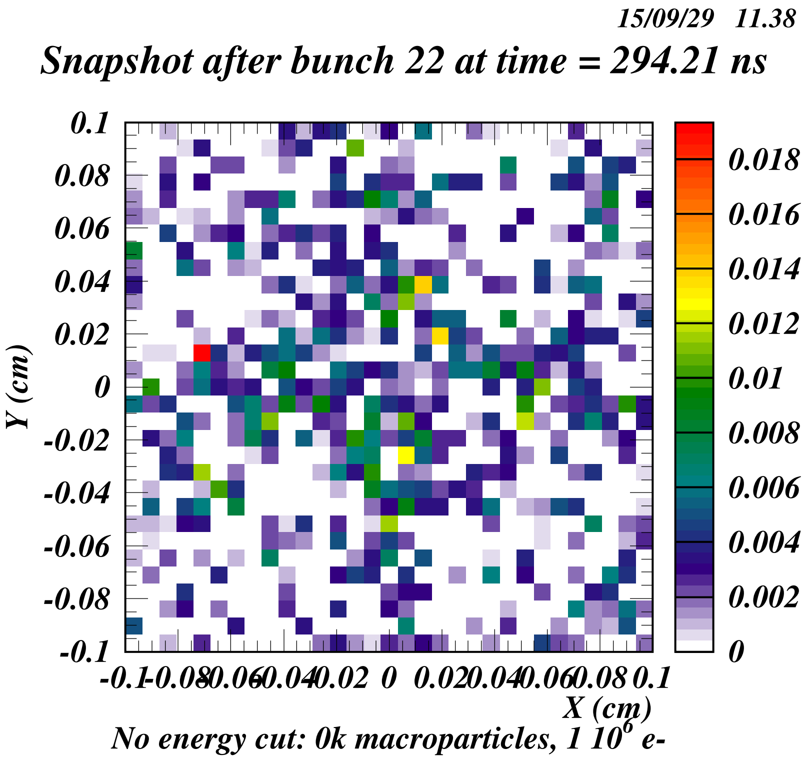
15/09/29 11.38


2.1 GeV 800 kG Dipole: Time slice 26 at time 294.21 ns
Entries 787
Mean 0.1039E-02
RMS 0.4923E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 31.88 / 27
P1 0.5556E-01
P2 -0.3066E-02
P3 0.2346E-01
P4 0.3448E-01
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 11.38

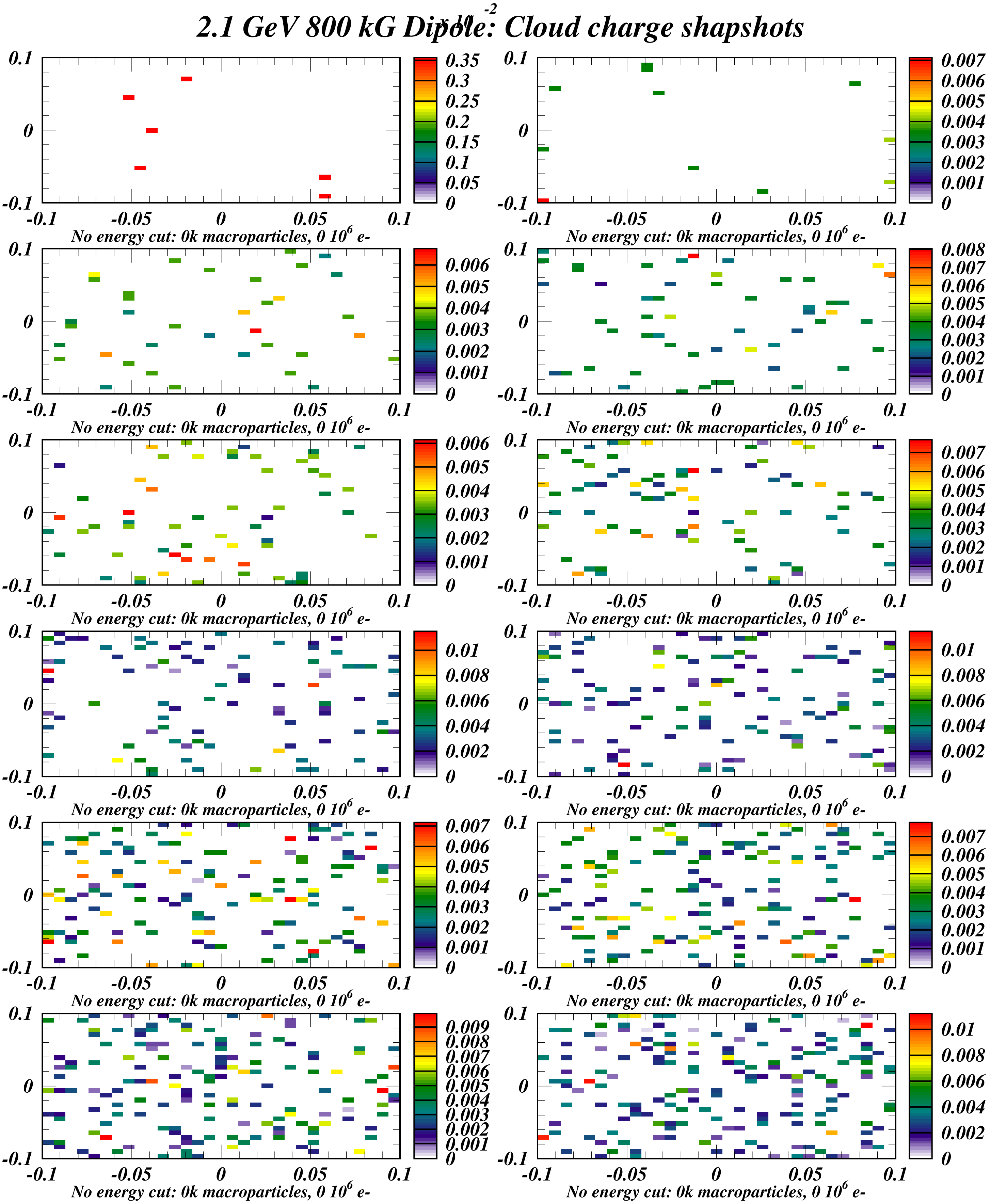


2.1 GeV 800 kG Dipole: Time slice 26 at time 294.21 ns
Entries 787
Mean 0.1039E-02
RMS 0.4923E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 31.88 / 27
P1 0.5556E-01
P2 -0.3066E-02
P3 0.2346E-01
P4 0.3448E-01
Cloud charge in bin (10^6 e)
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
Y (cm)


15/09/29 11.38
Snapshot after bunch 22 at time = 294.21 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 1 10^6 e-

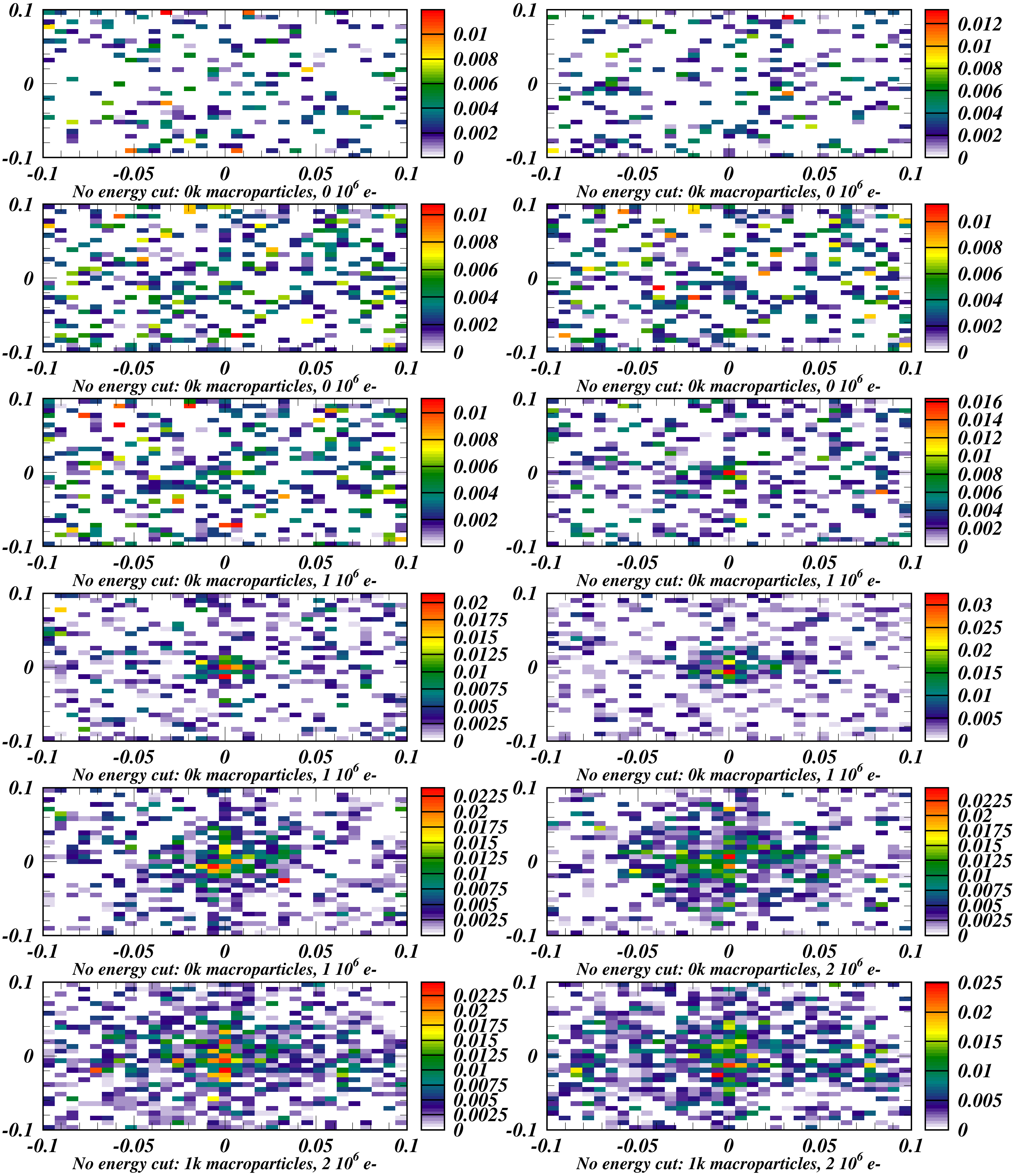
15/09/29 11.38

2.1 GeV 800 kG Dipole: Cloud charge shapshots



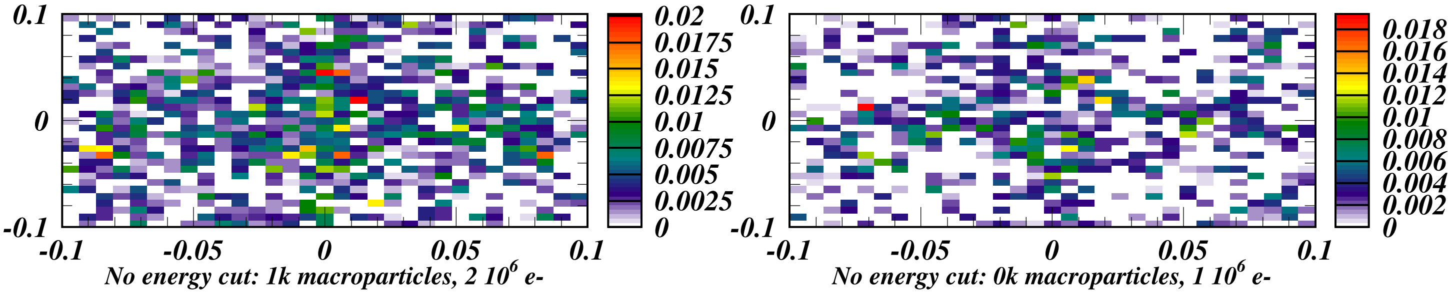
15/09/29 11.38

2.1 GeV 800 kG Dipole: Cloud charge shapshots



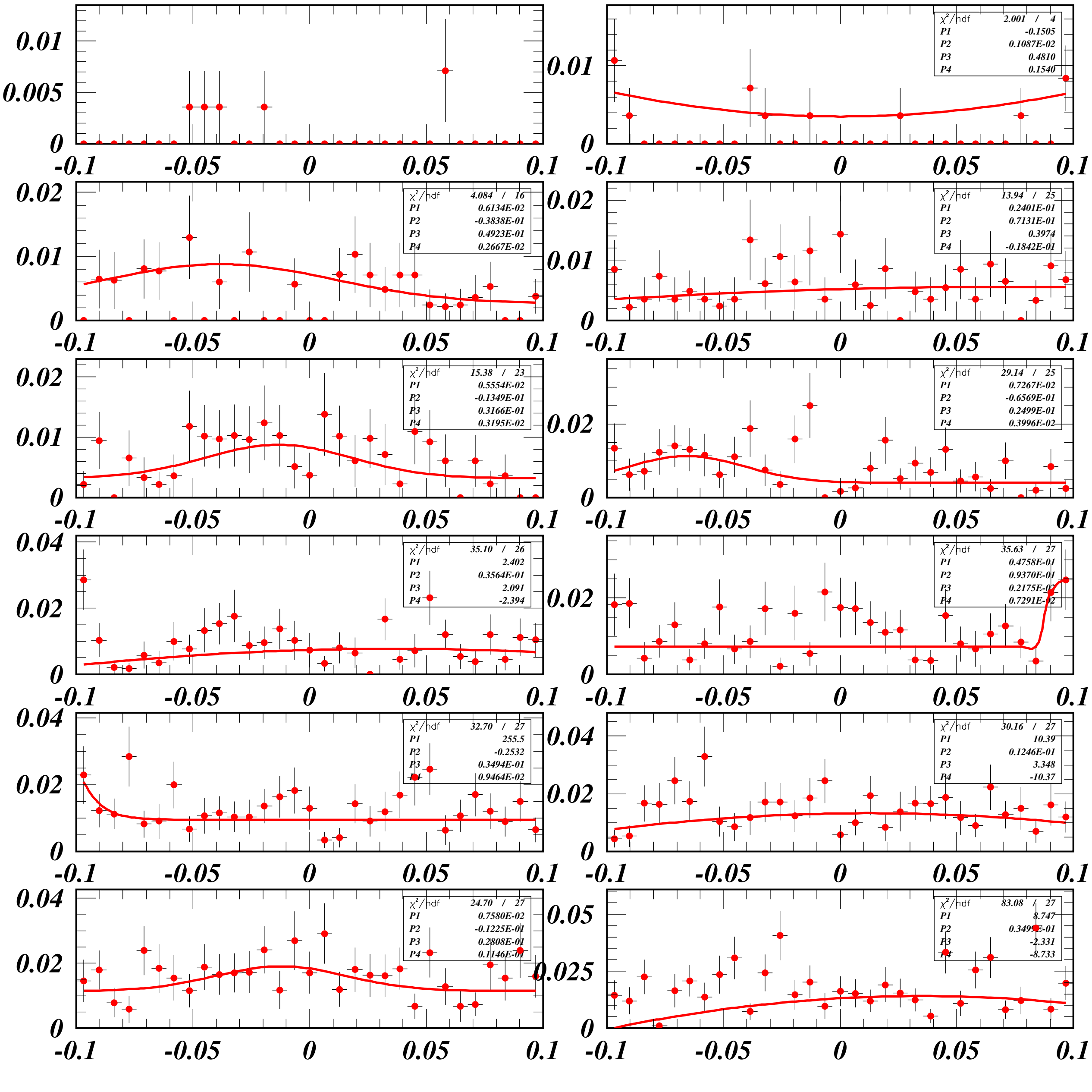
15/09/29 11.38

2.1 GeV 800 kG Dipole: Cloud charge shapshots



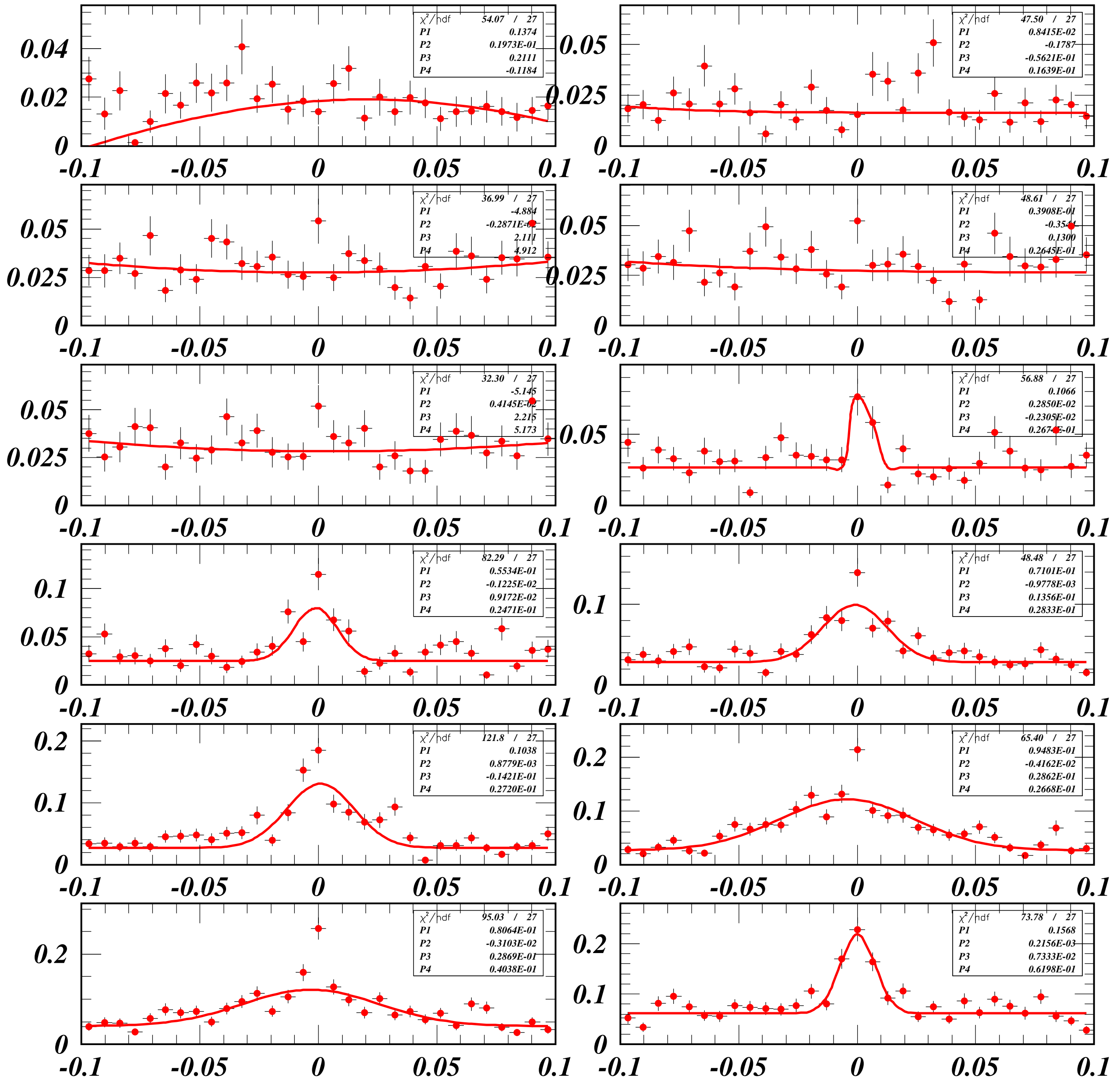
15/09/29 11.38

2.1 GeV 800 kG Dipole: Fits to cloud charge X distribution



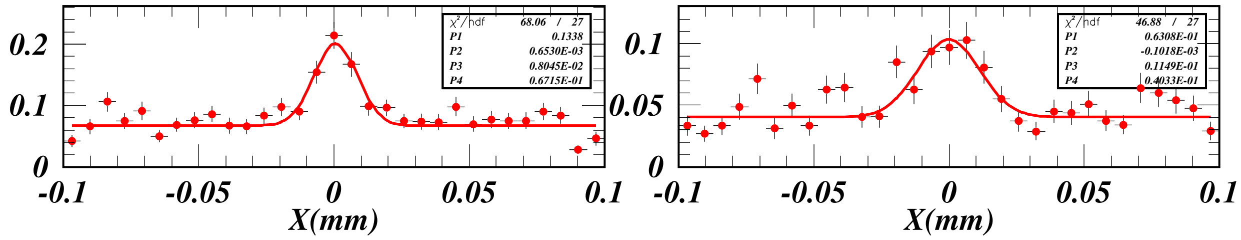
15/09/29 11.38

2.1 GeV 800 kG Dipole: Fits to cloud charge X distribution



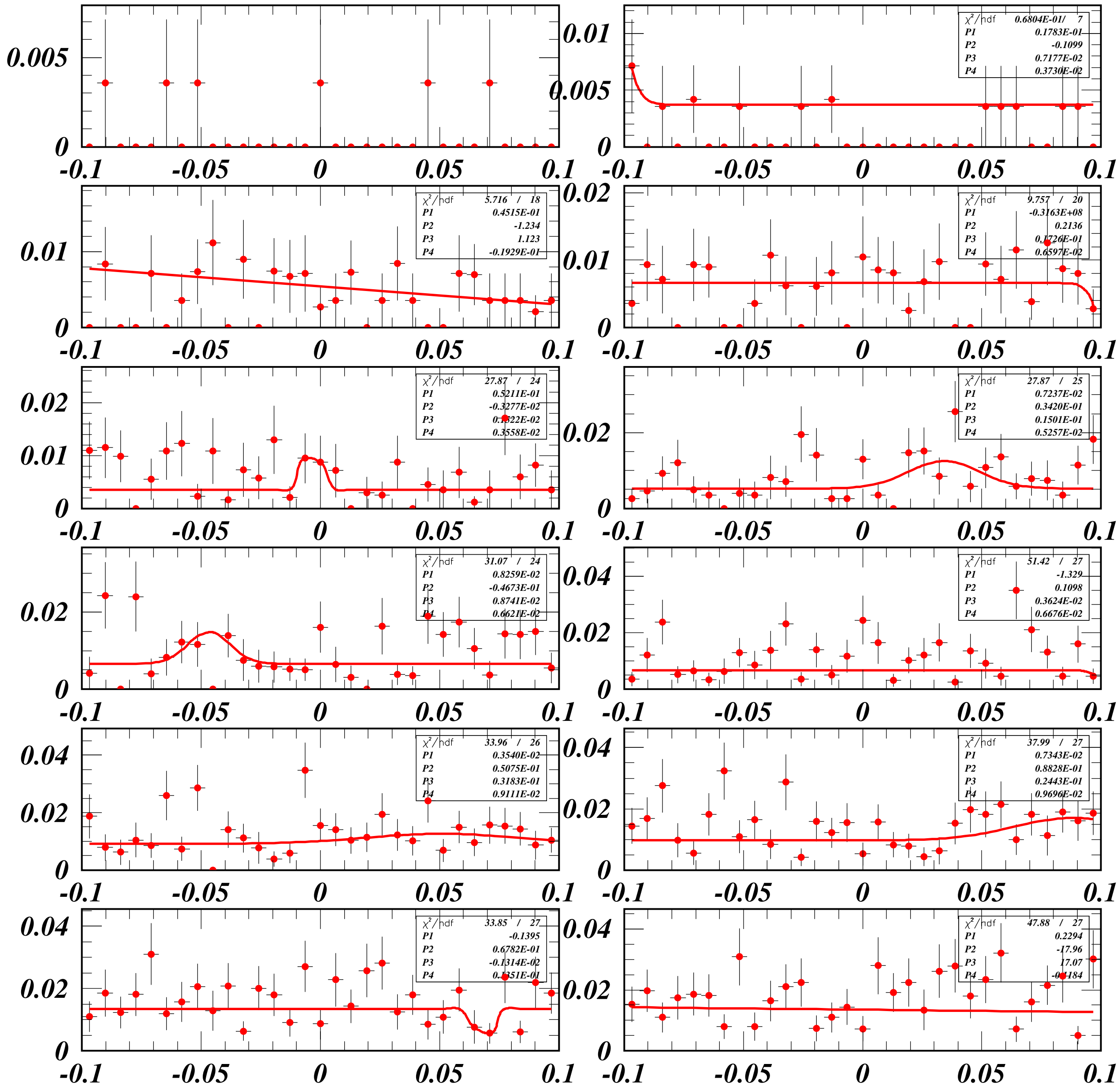
15/09/29 11.38

2.1 GeV 800 kG Dipole: Fits to cloud charge X distribution



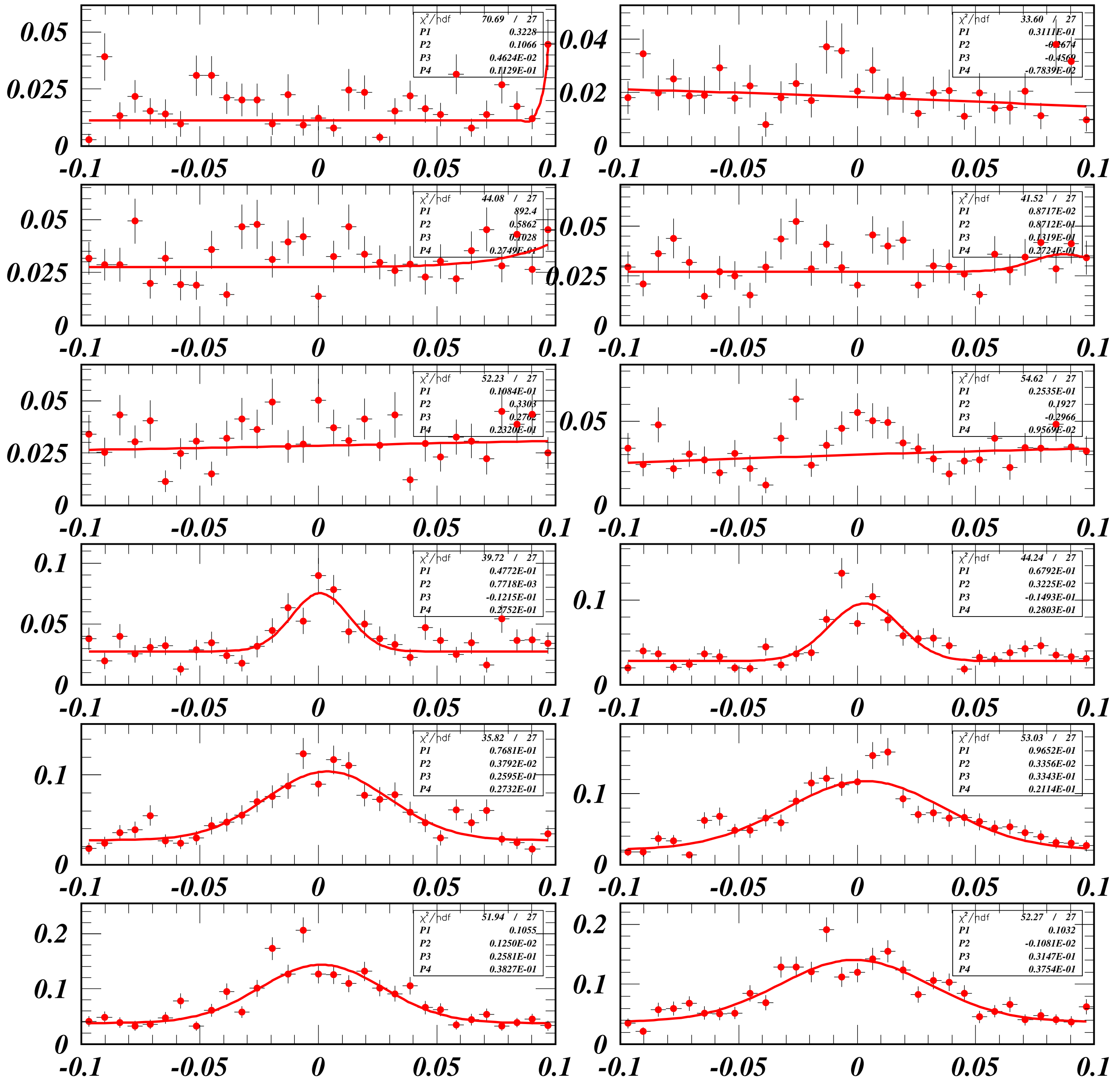
15/09/29 11.38

2.1 GeV 800 kG Dipole: Fits to cloud charge Y distribution

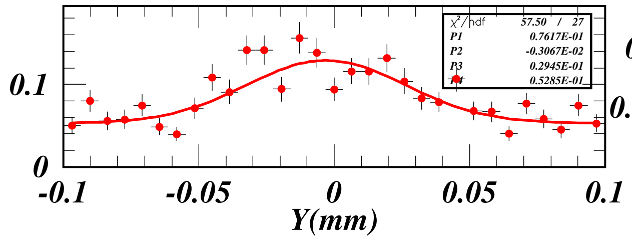


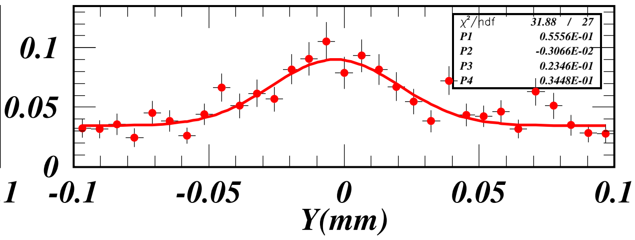
15/09/29 11.38

2.1 GeV 800 kG Dipole: Fits to cloud charge Y distribution

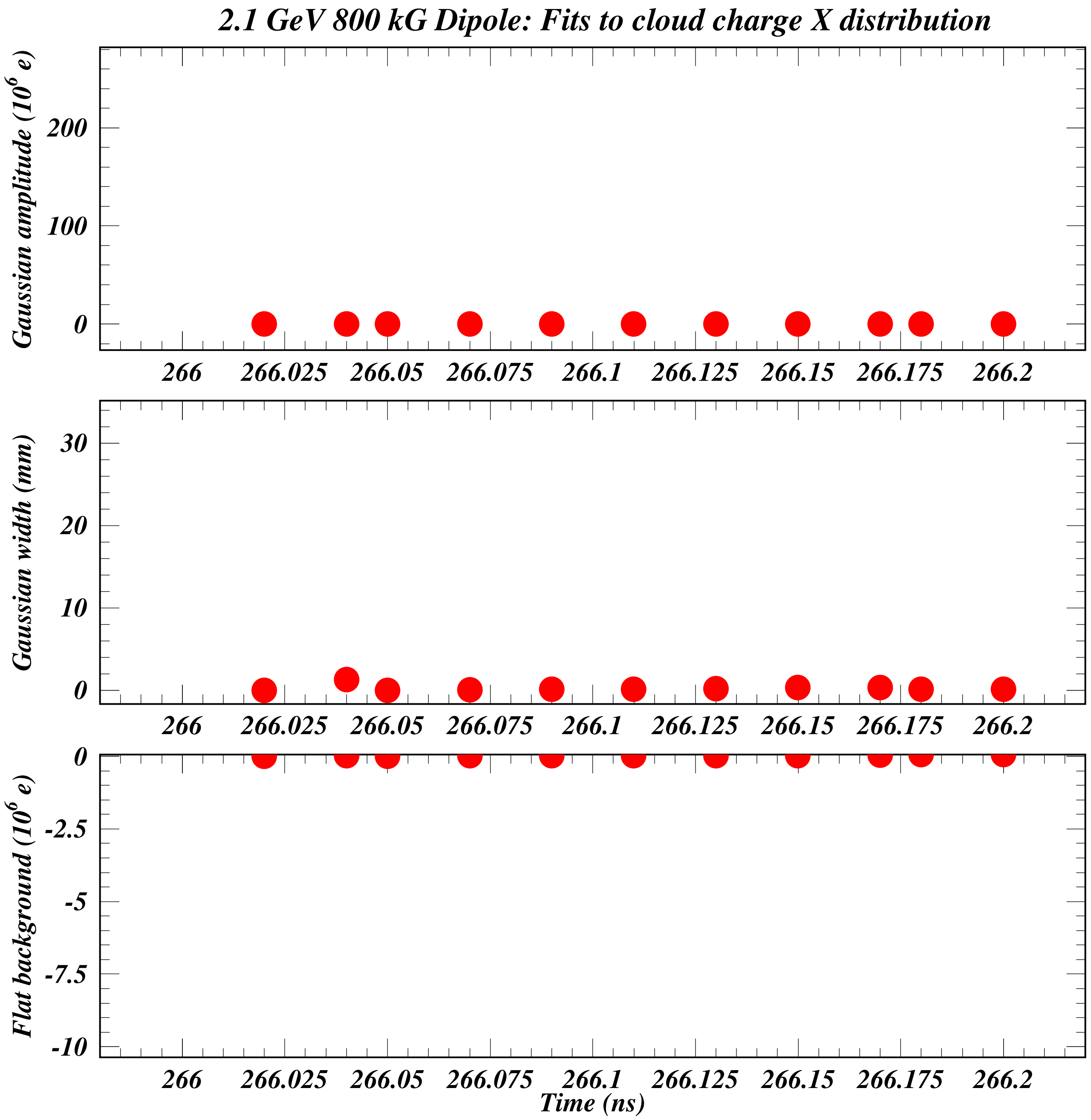


2.1 GeV 800 kG Dipole: Fits to cloud charge Y distribution

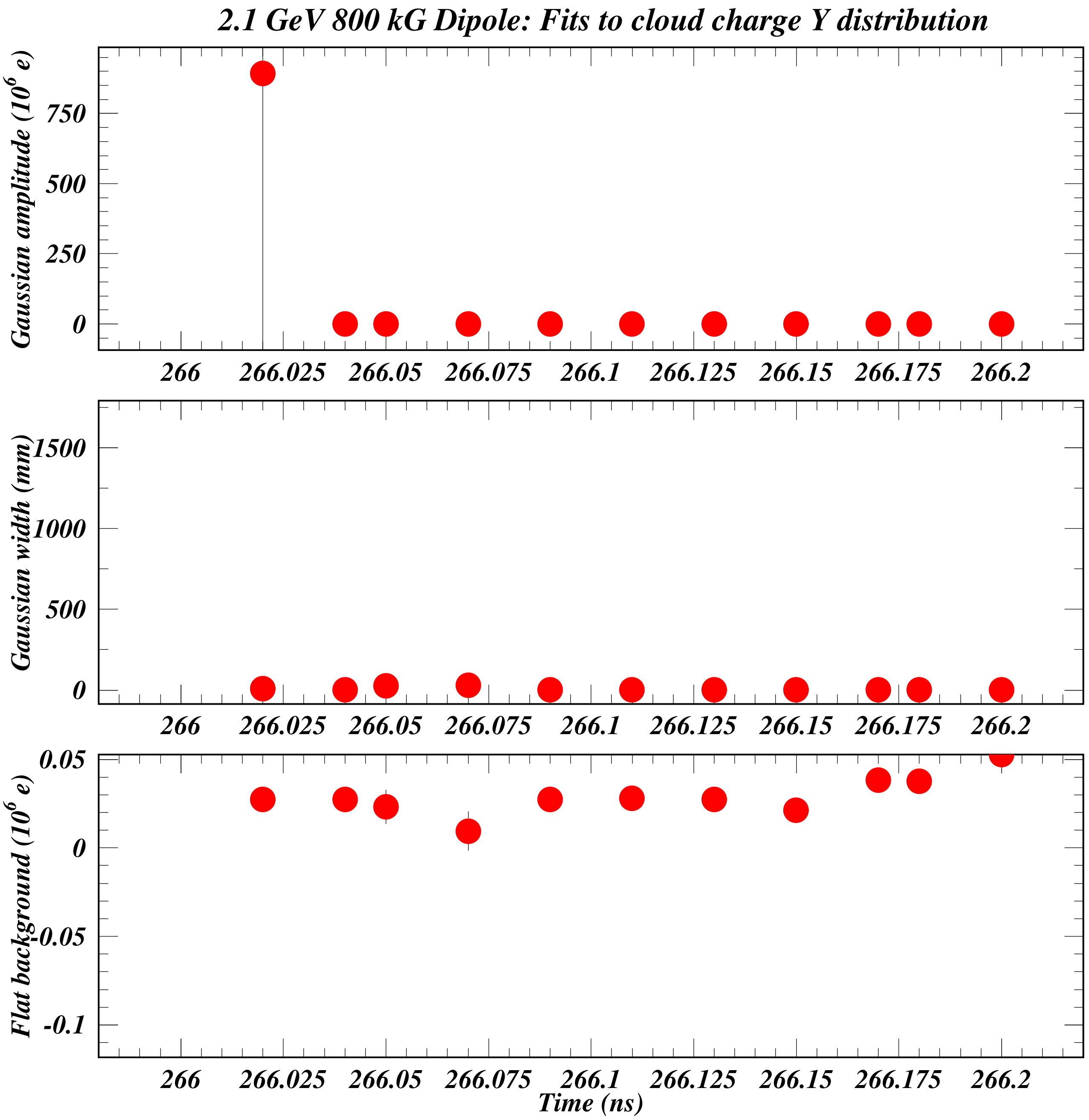




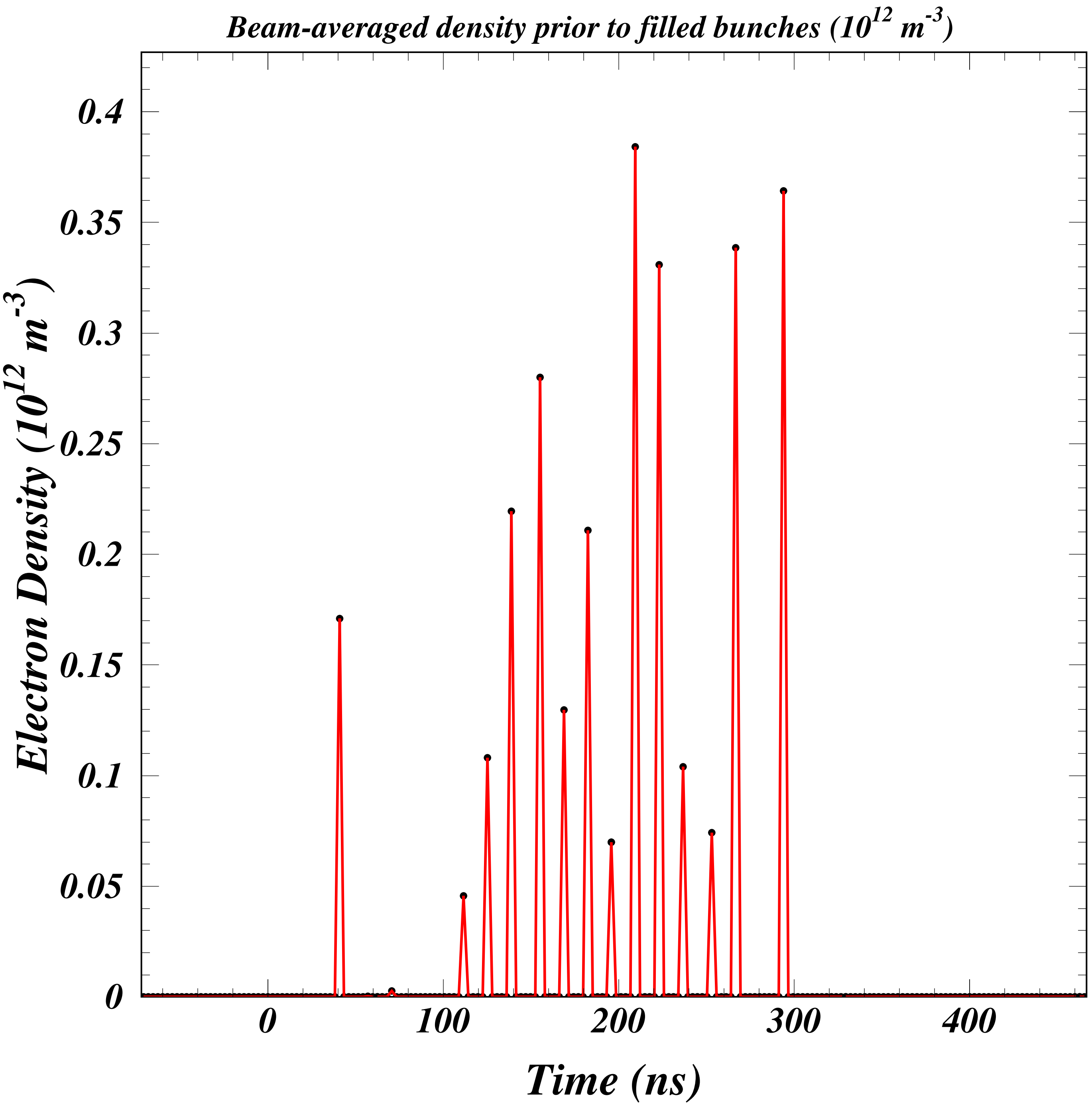
15/09/29 11.38

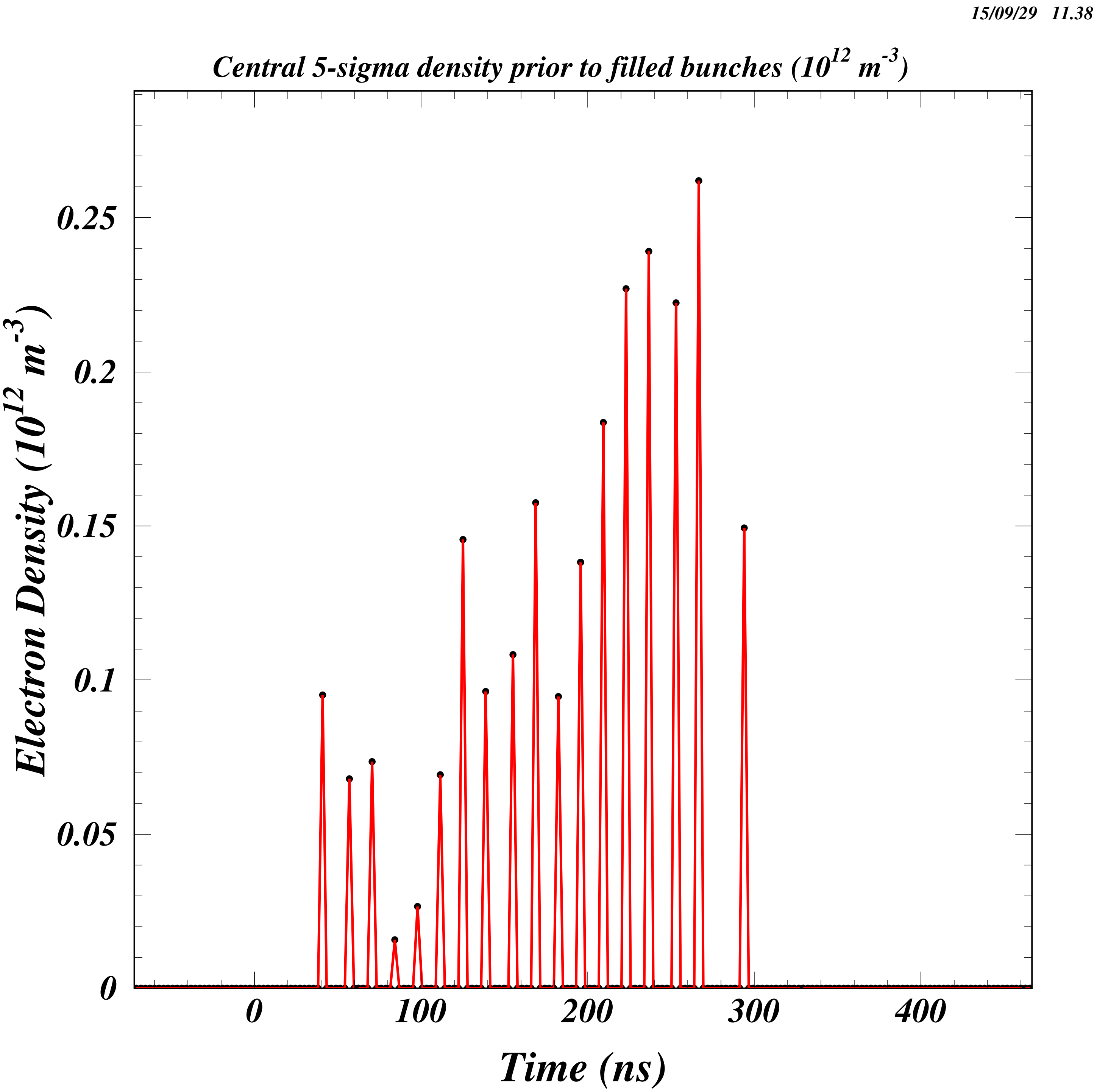

2.1 GeV 800 kG Dipole: Fits to cloud charge X distribution
Gaussian amplitude (10^6 e)
200
100
0
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Gaussian width (mm)
30
20
10
0
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Flat background (10^6 e)
0
-2.5
-5
-7.5
-10
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Time (ns)

15/09/29 11.38

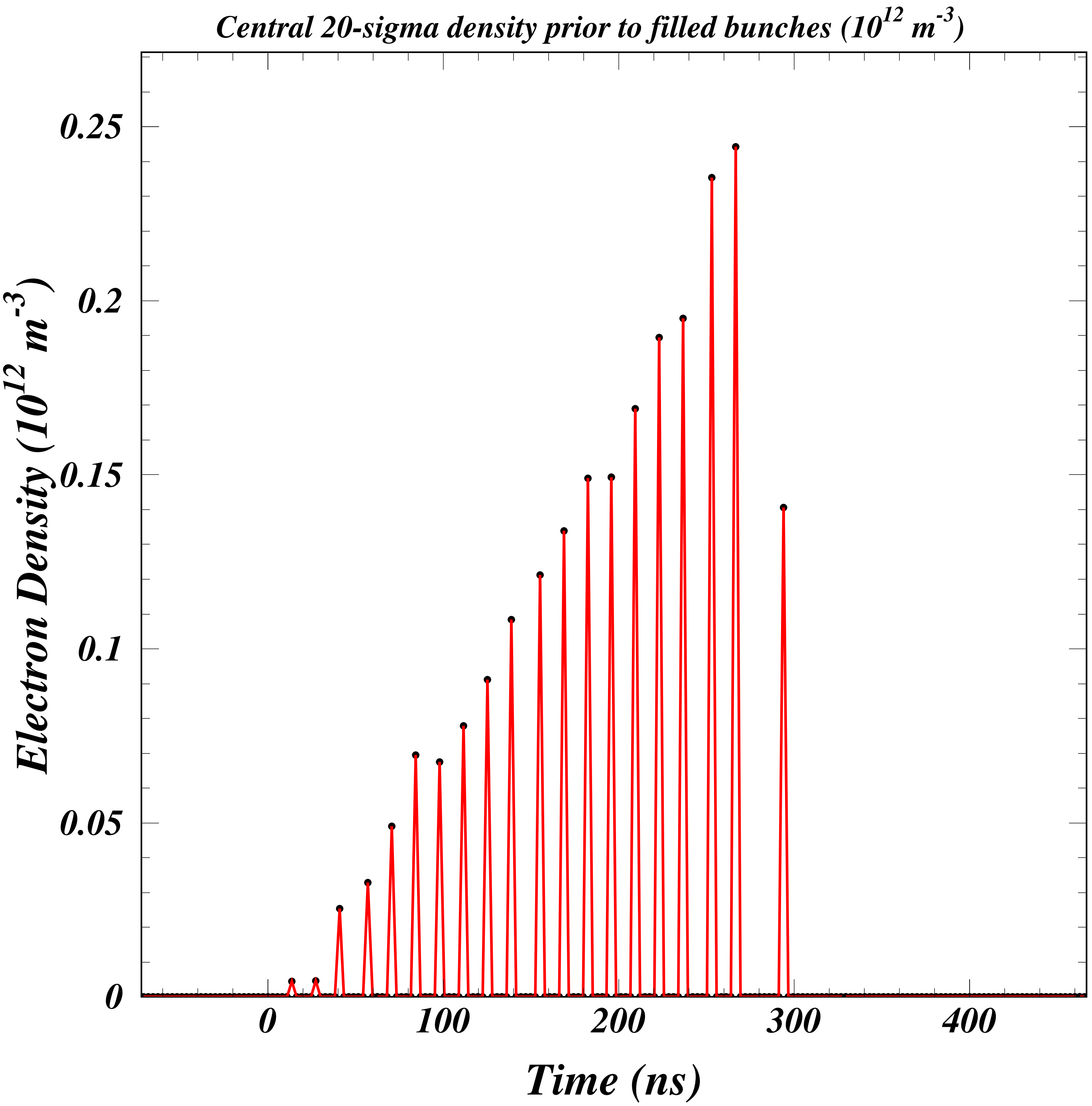


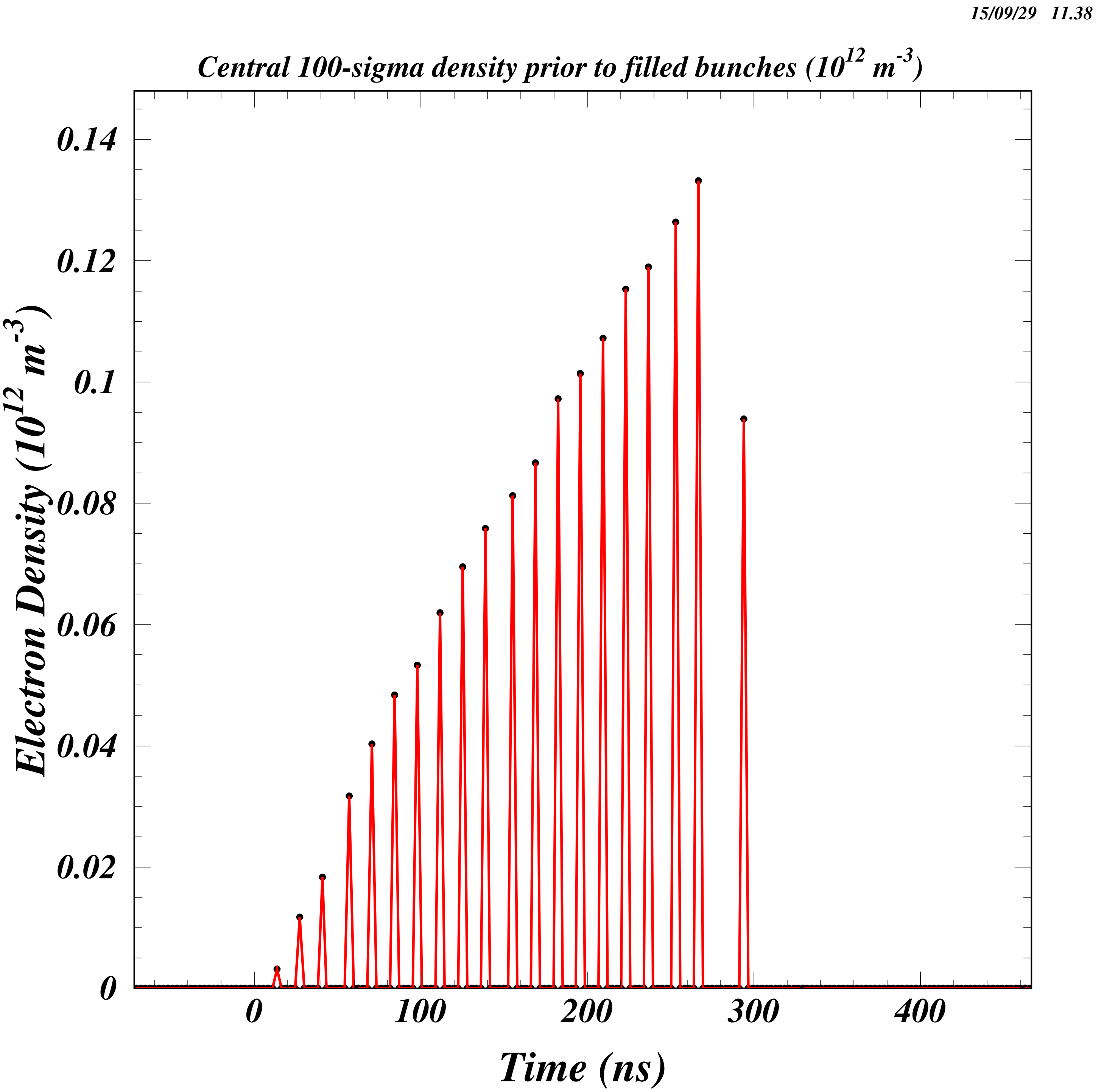
2.1 GeV 800 kG Dipole: Fits to cloud charge Y distribution
Gaussian amplitude (10^6 e)
750
500
250
0
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Gaussian width (mm)
1500
1000
500
0
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Flat background (10^6 e)
0.05
0
-0.05
-0.1
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Time (ns)


Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
100
200
300
400
Time (ns)


15/09/29 11.38
Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.25
0.2
0.15
0.1
0.05
0
0
100
200
300
400
Time (ns)

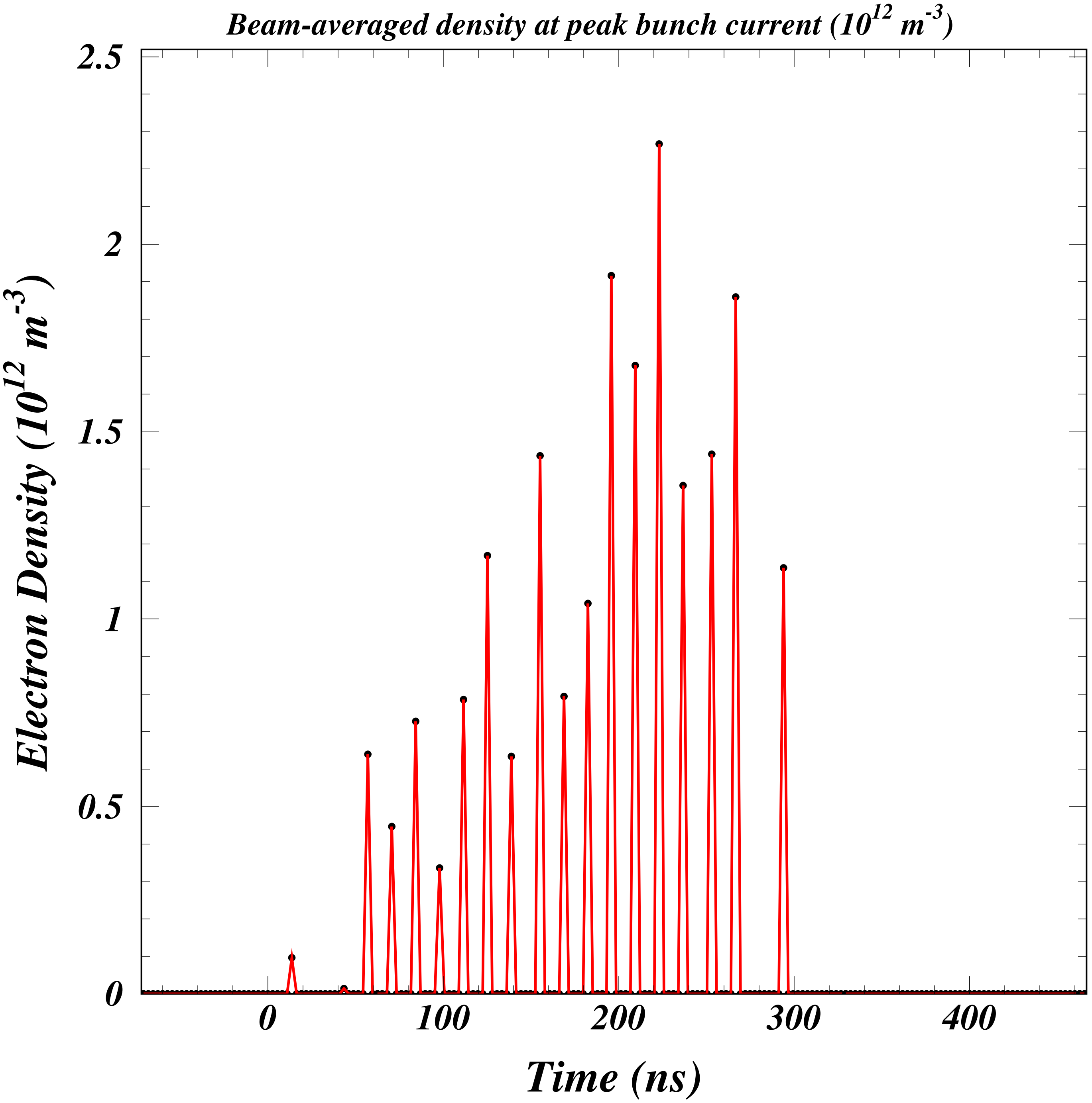
15/09/29 11.38


Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.25
0.2
0.15
0.1
0.05
0
0
100
200
300
400
Time (ns)

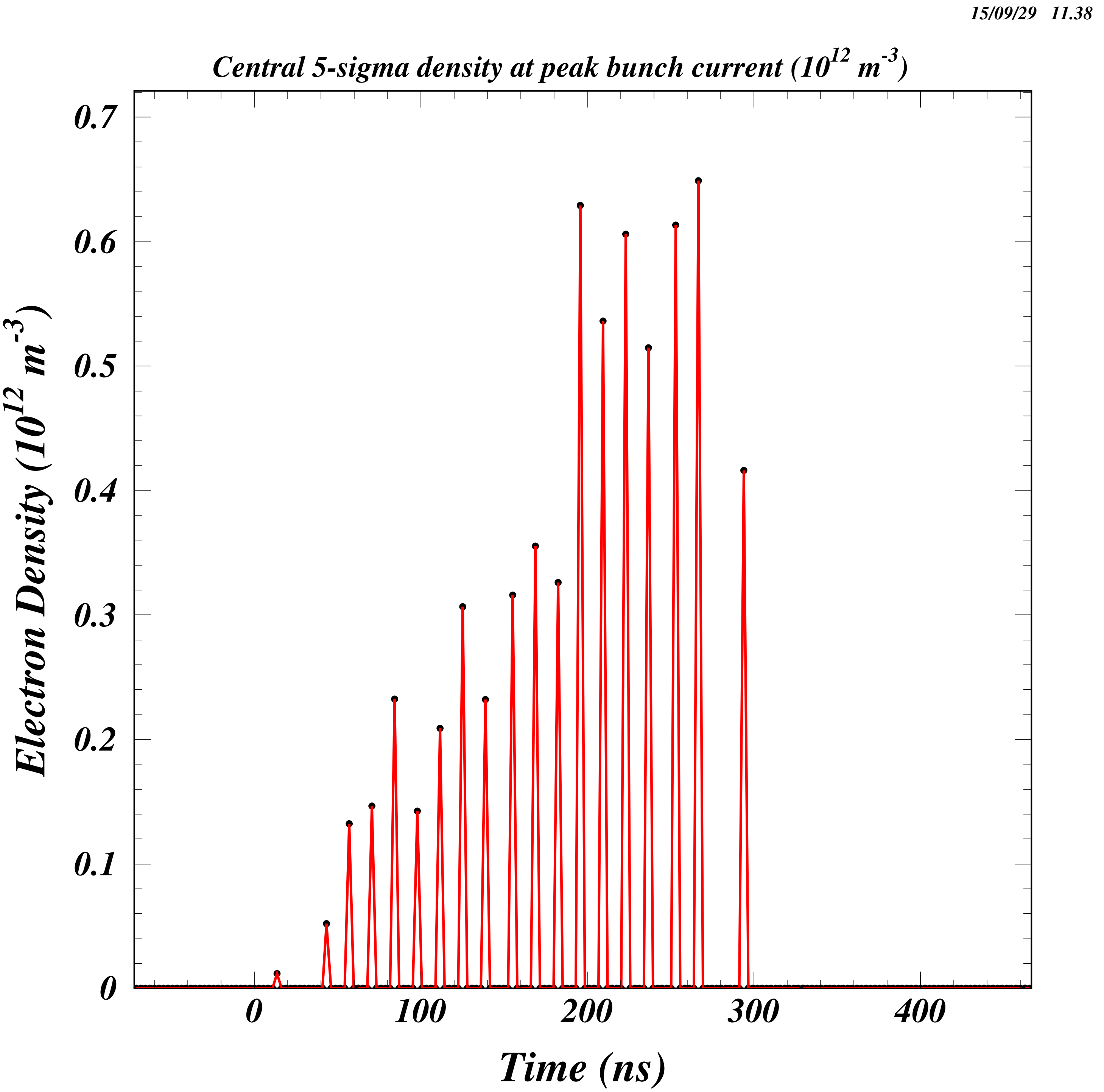


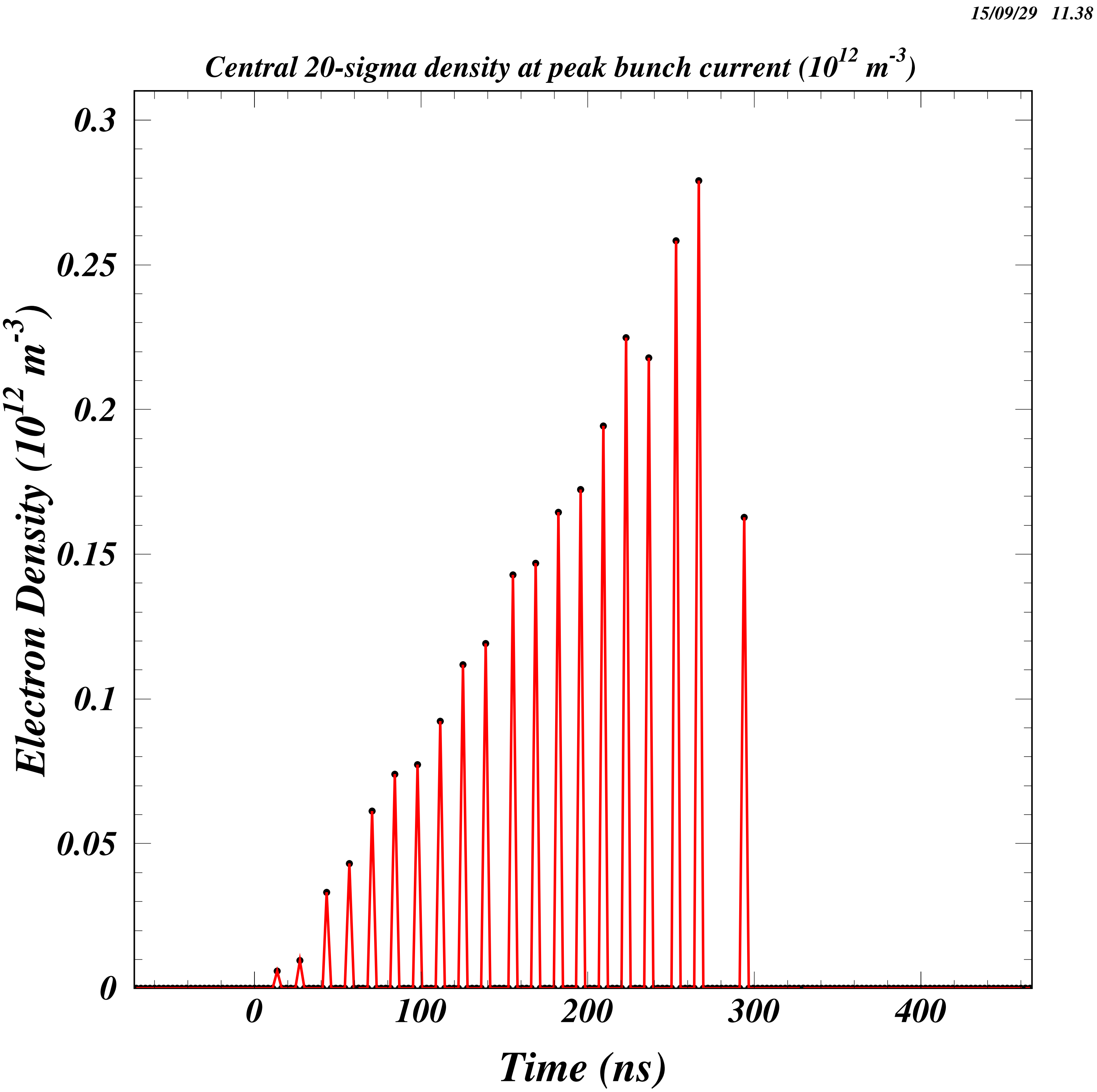
15/09/29 11.38
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
100
200
300
400
Time (ns)

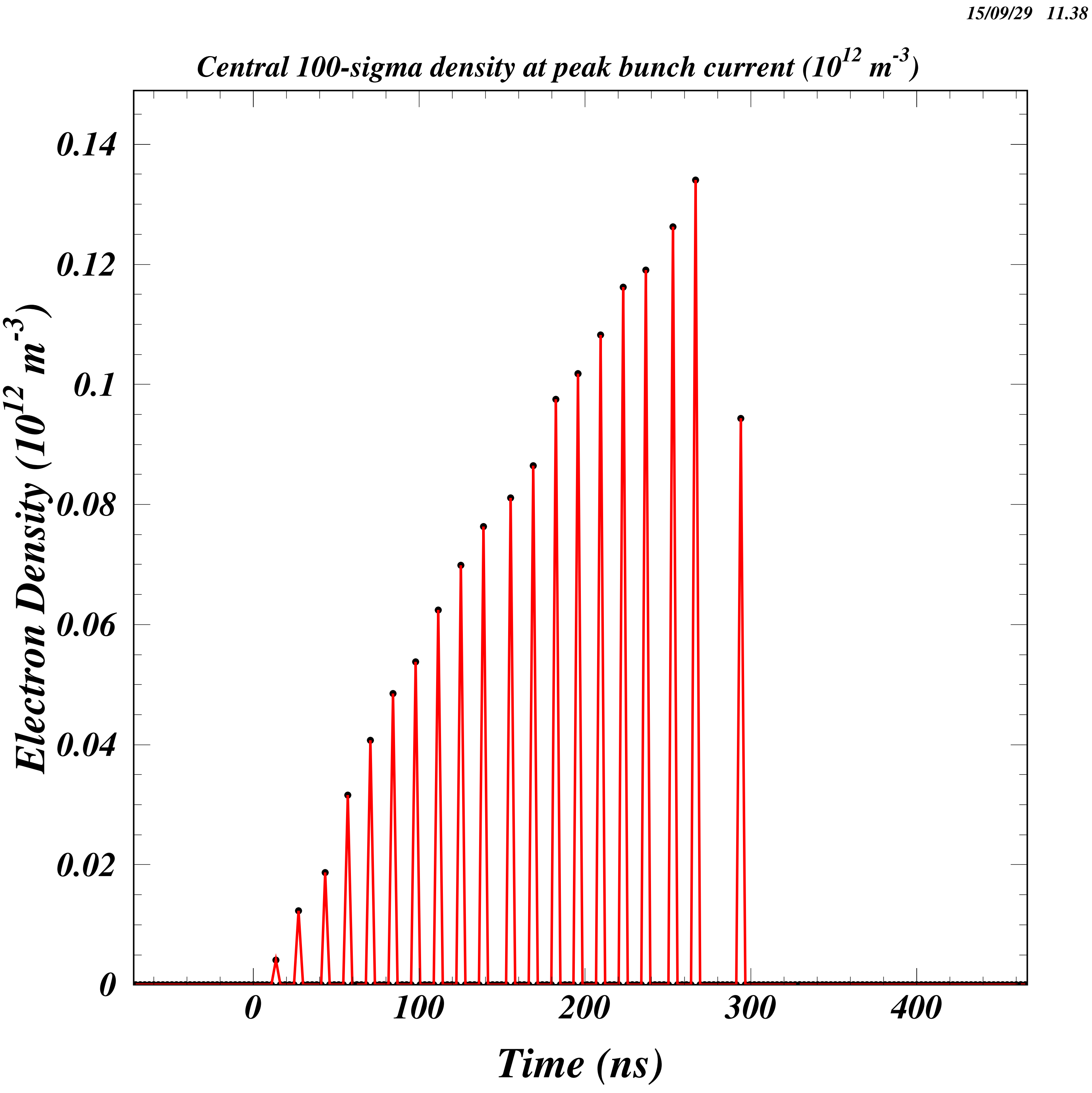
15/09/29 11.38

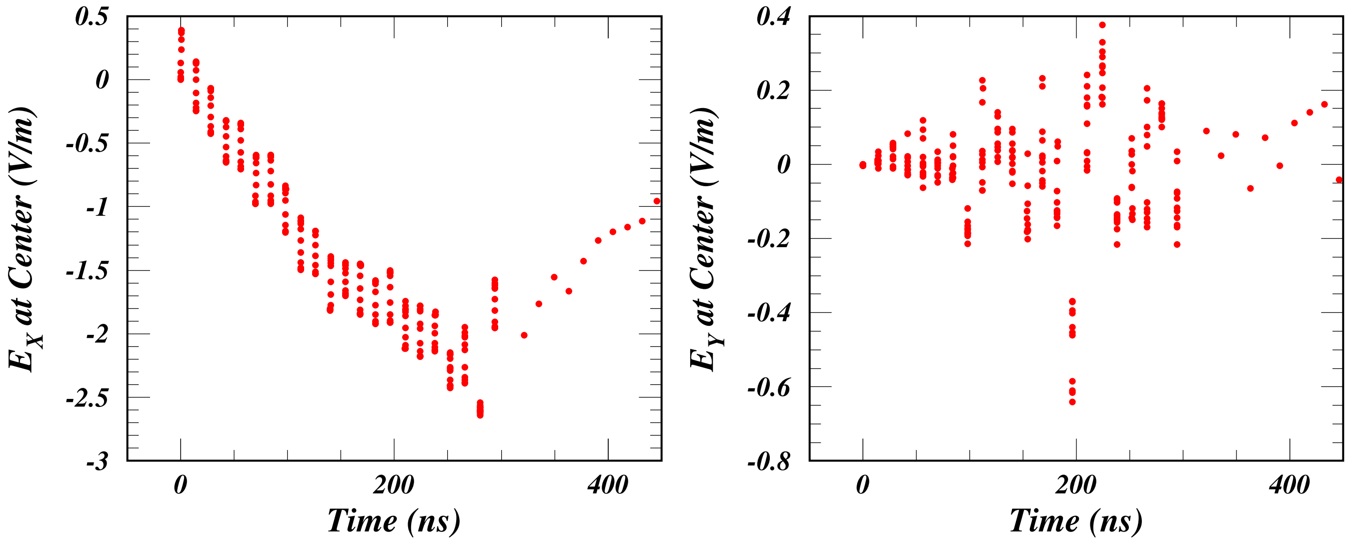


Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
Time (ns)
2.5
2
1.5
1
0.5
0
0
100
200
300
400

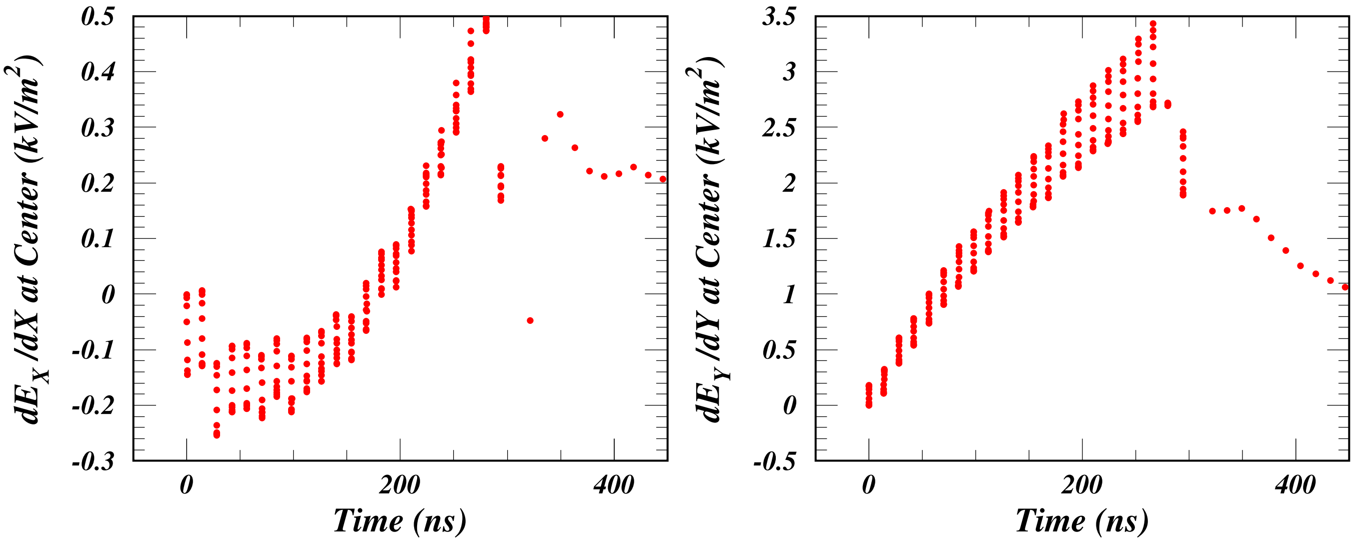

15/09/29 11.38
Central 5-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400
Time (ns)


15/09/29 11.38
Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
Time (ns)
0
0.05
0.1
0.15
0.2
0.25
0.3
100
200
300
400

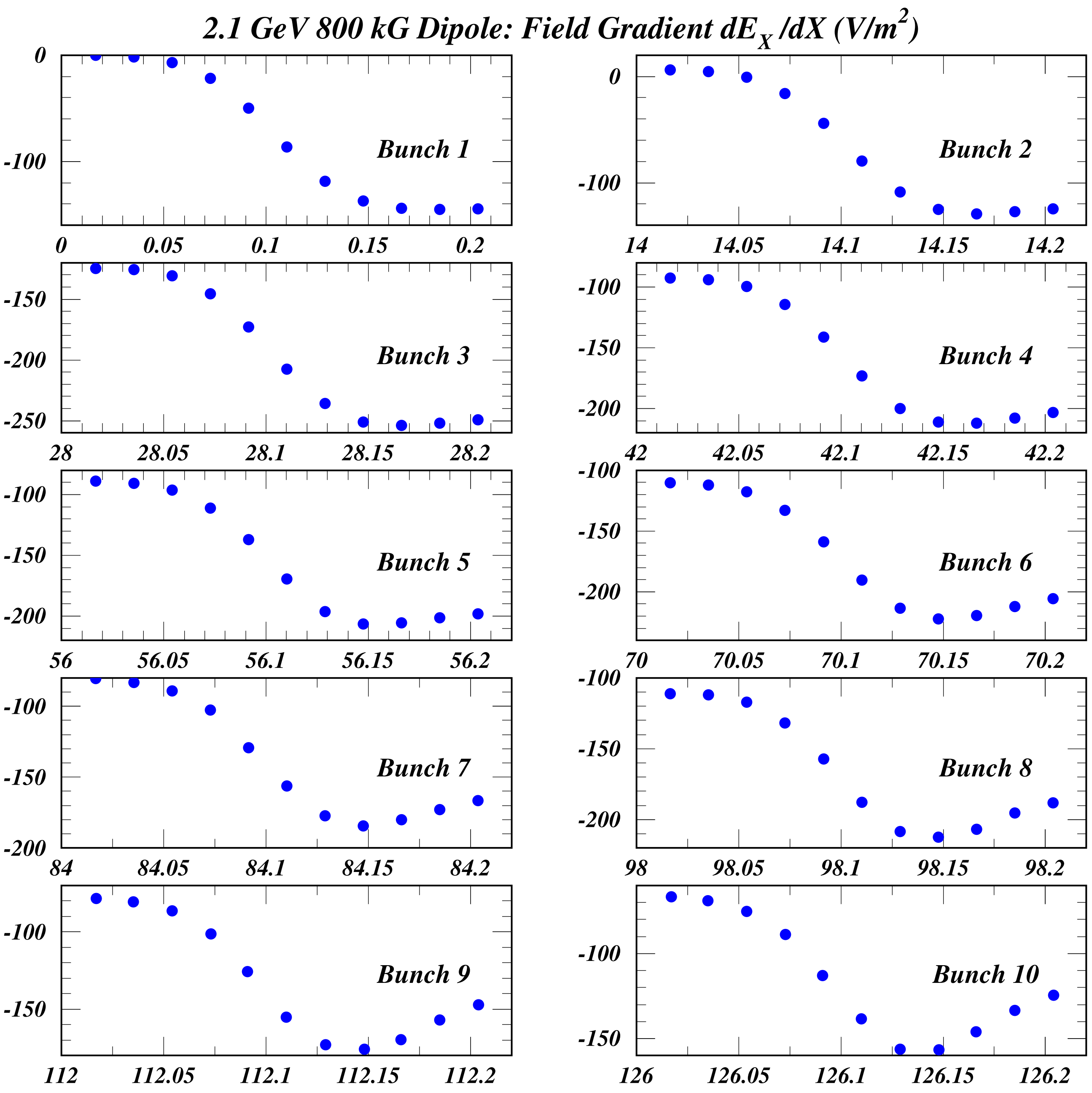

15/09/29 11.38
Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
100
200
300
400
Time (ns)

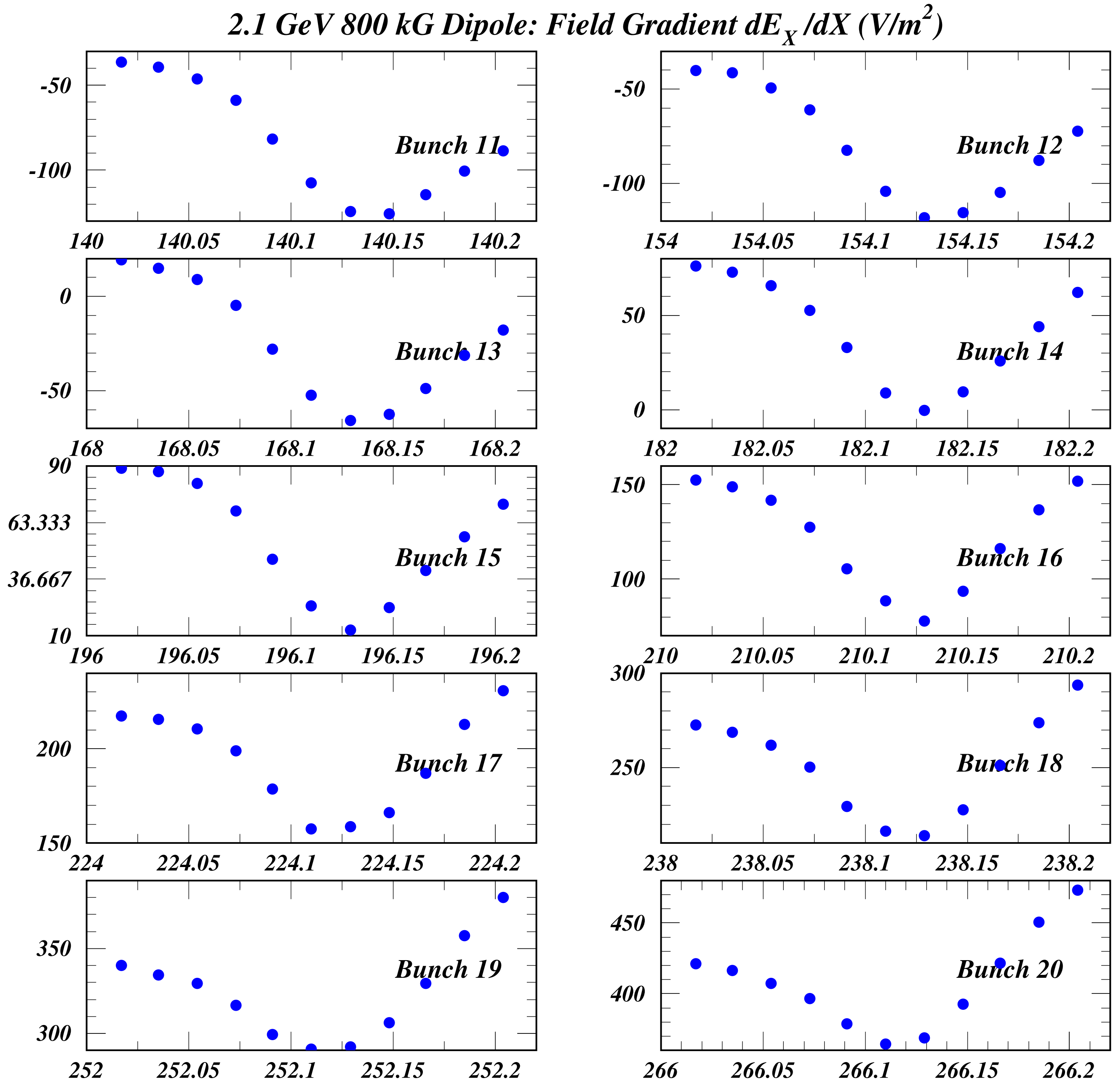


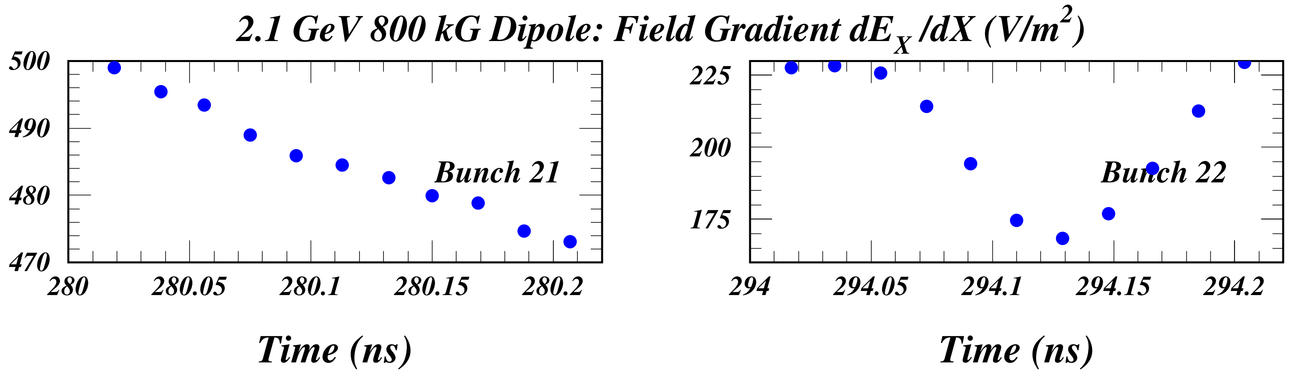
E_X at Center (V/m)
Time (ns)
E_Y at Center (V/m)
Time (ns)



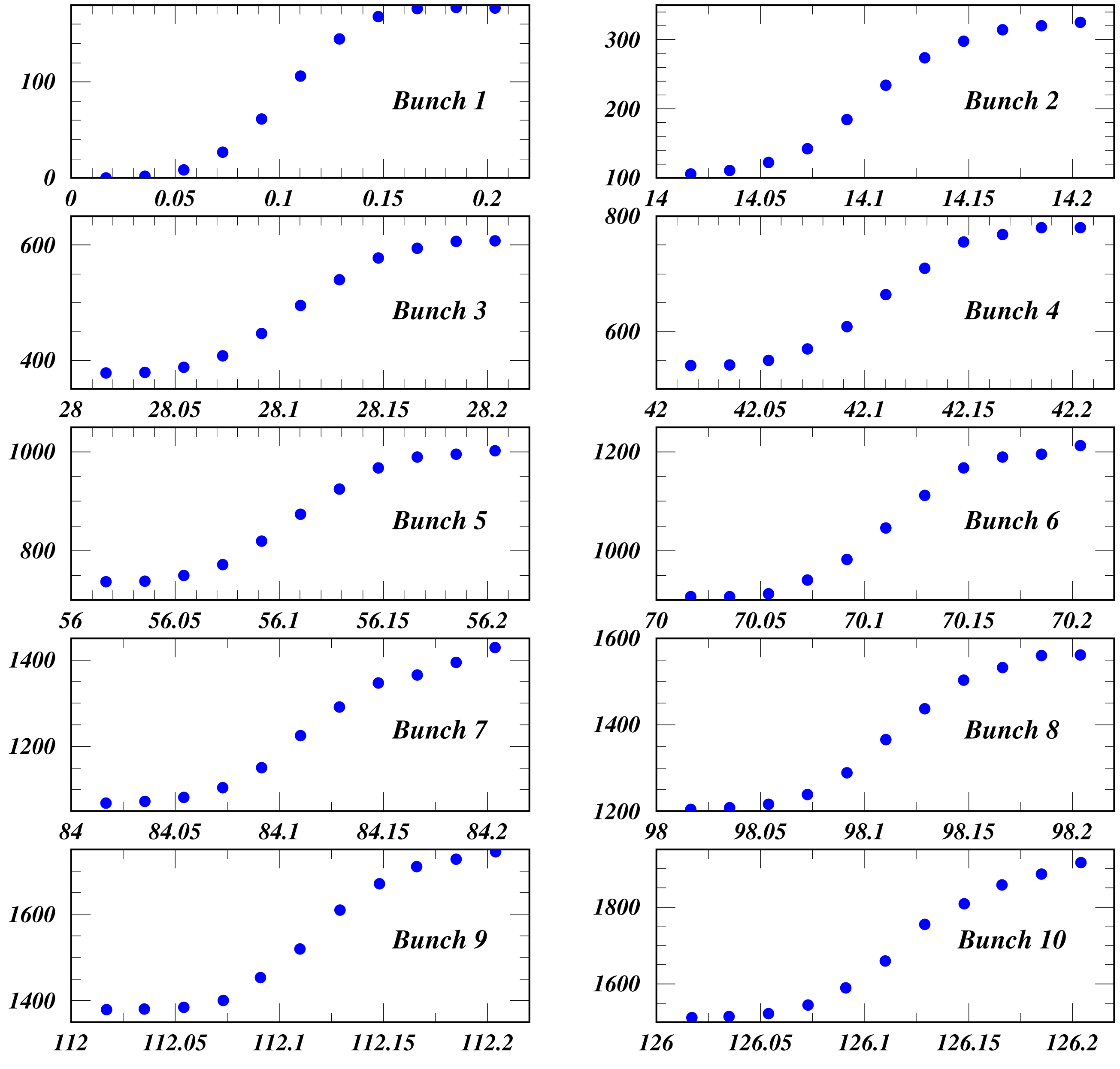
dE_X/dX at Center (kV/m^2)
Time (ns)
dE_Y/dY at Center (kV/m^2)
Time (ns)


2.1 GeV 800 kG Dipole: Field Gradient dE_X /dX (V/m^2)
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10

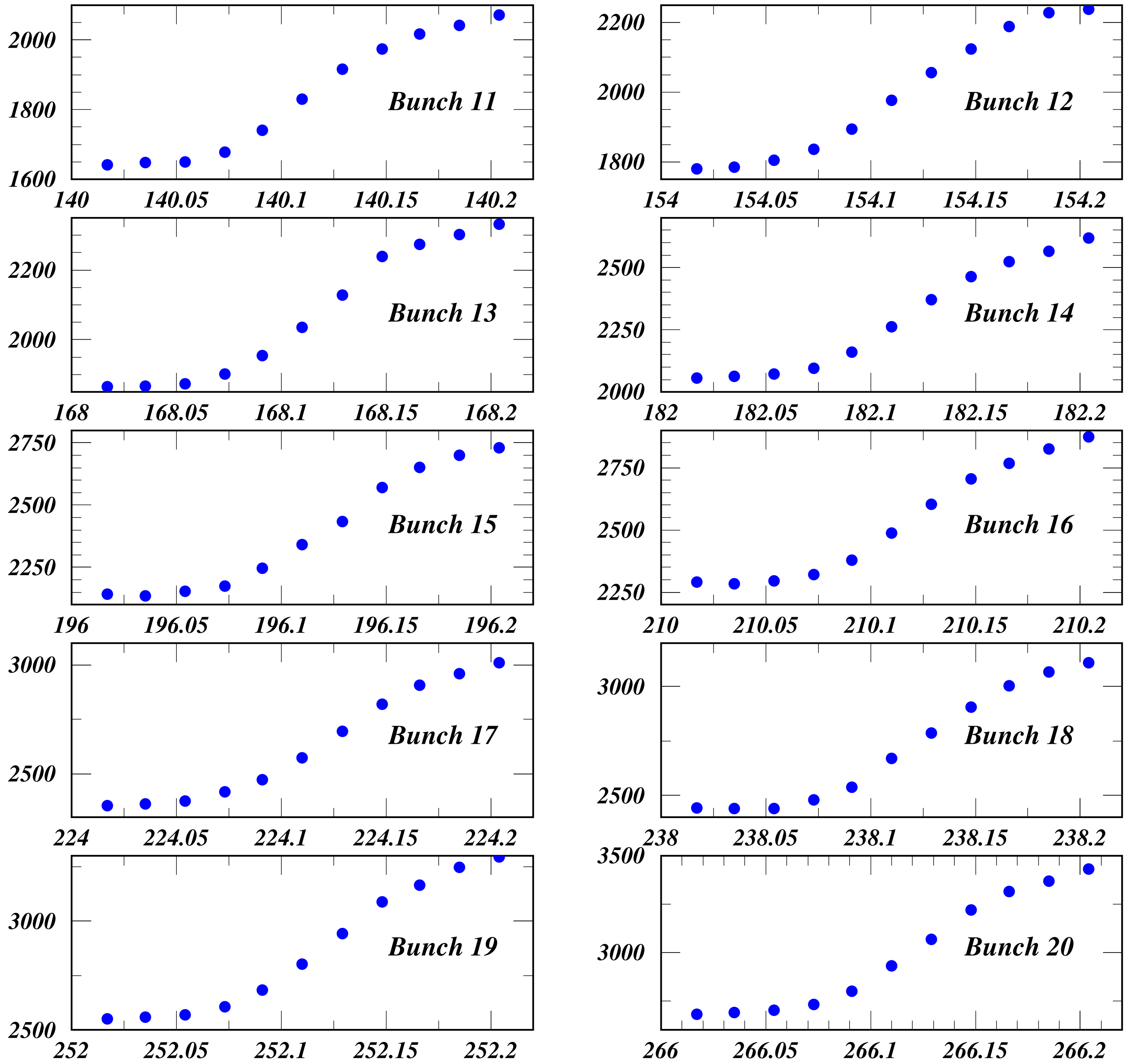

2.1 GeV 800 kG Dipole: Field Gradient dE_X /dX (V/m^2)
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20

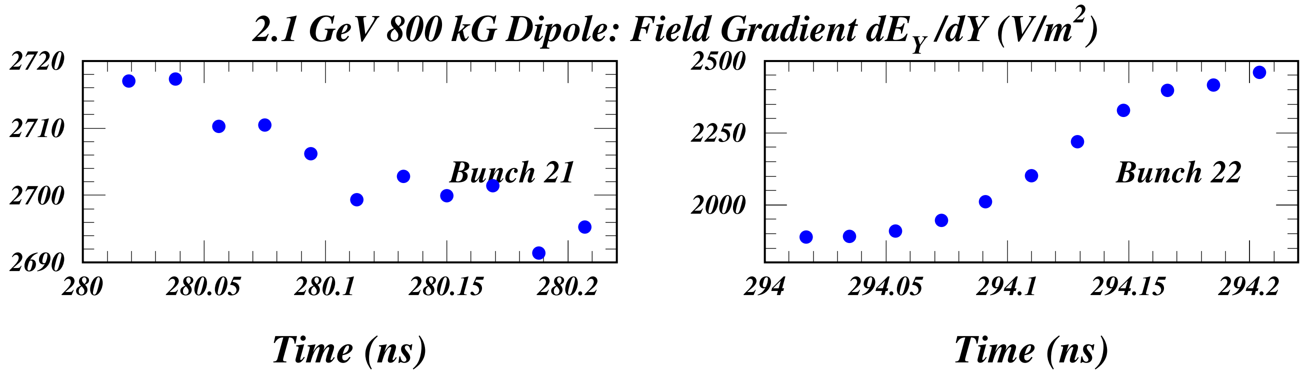

2.1 GeV 800 kG Dipole: Field Gradient dE_X /dX (V/m^2)
500
490
480
470
280
280.05
280.1
280.15
280.2
Bunch 21
Time (ns)
225
200
175
294
294.05
294.1
294.15
294.2
Bunch 22
Time (ns)

2.1 GeV 800 kG Dipole: Field Gradient dE_Y/dY (V/m^2)

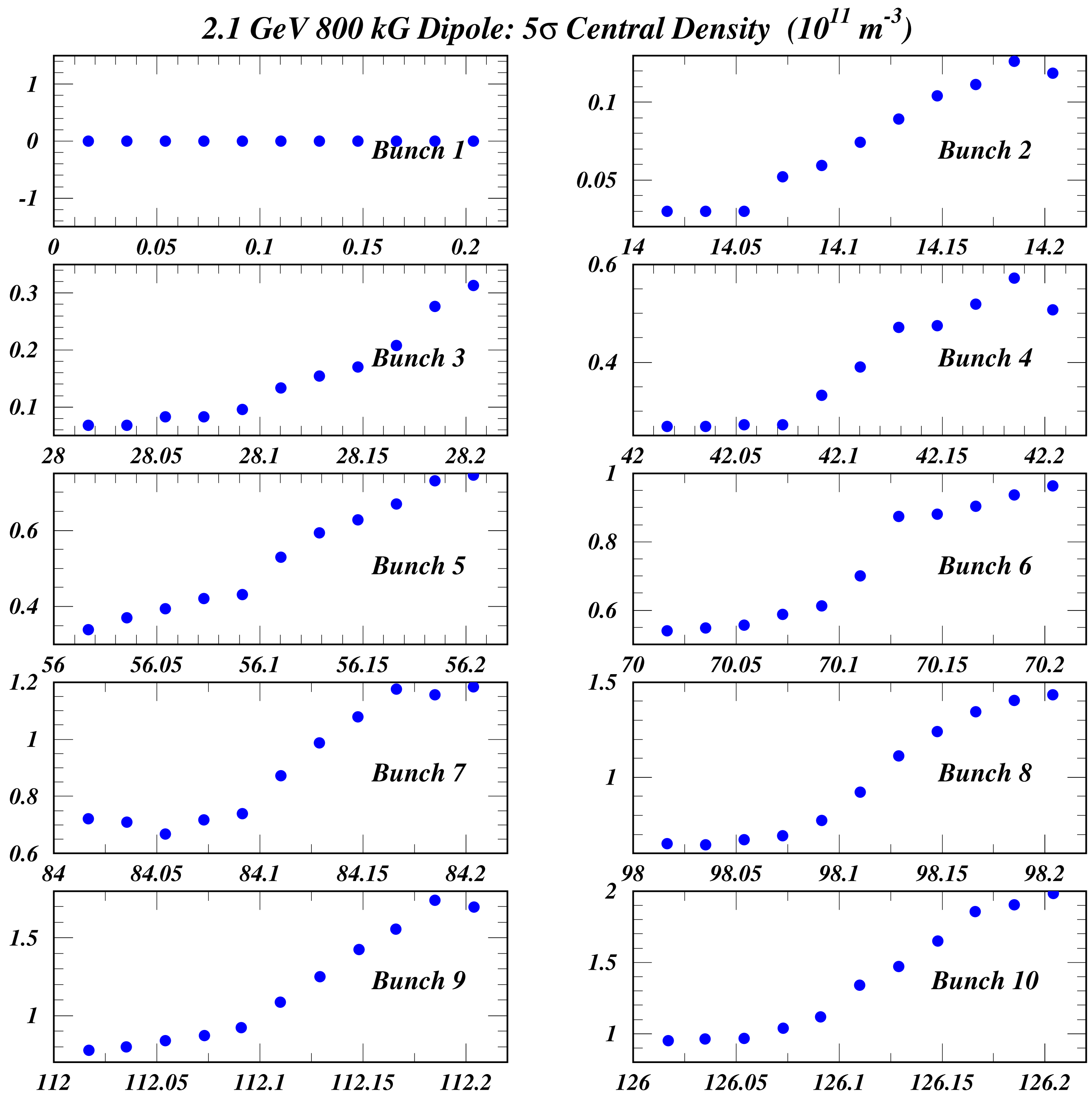


2.1 GeV 800 kG Dipole: Field Gradient dE_Y/dY (V/m^2)

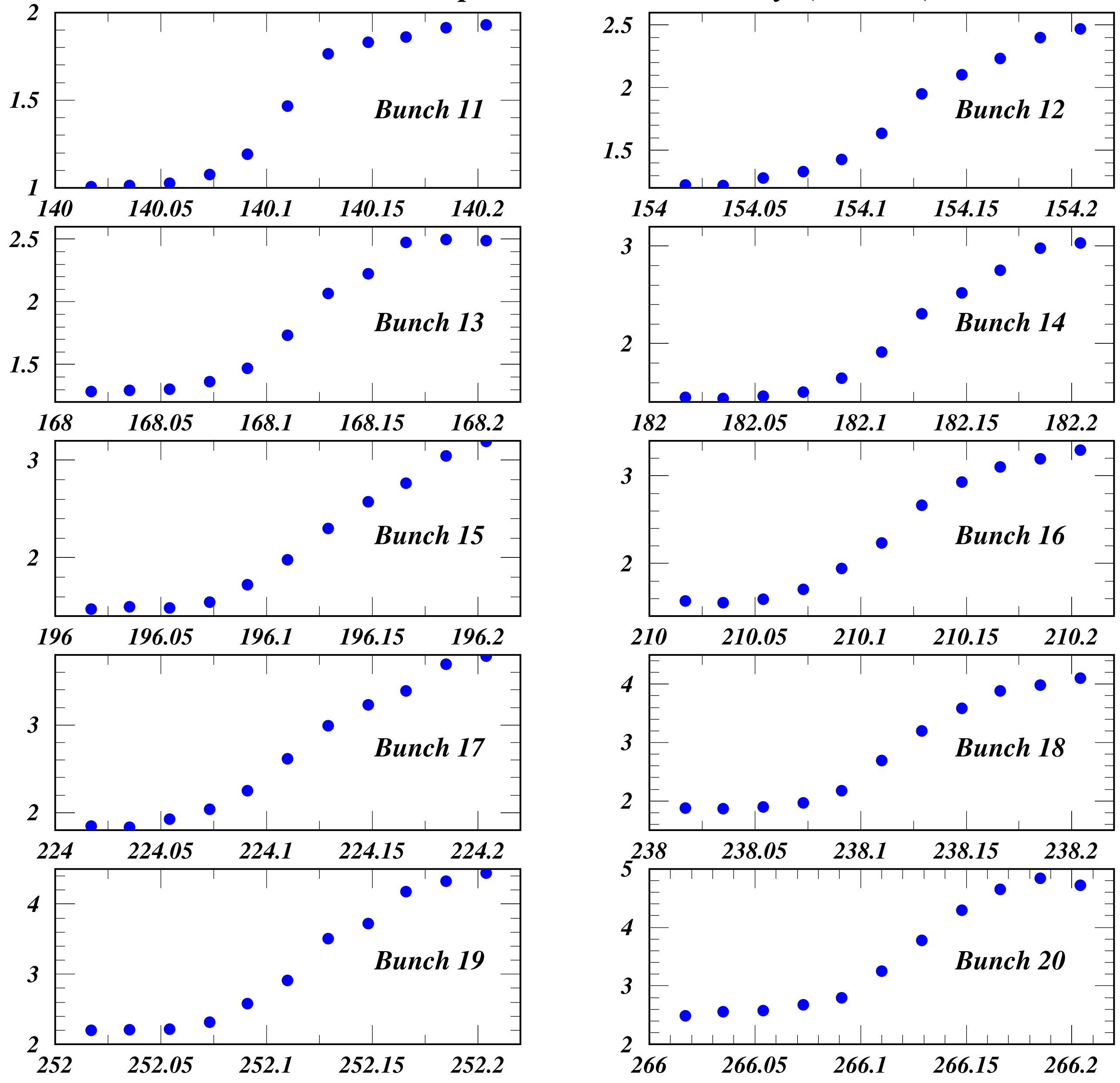


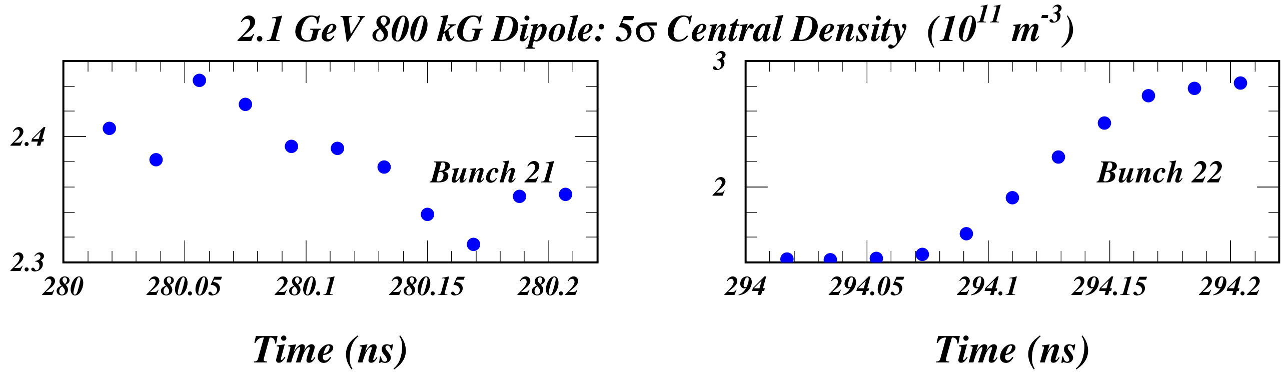


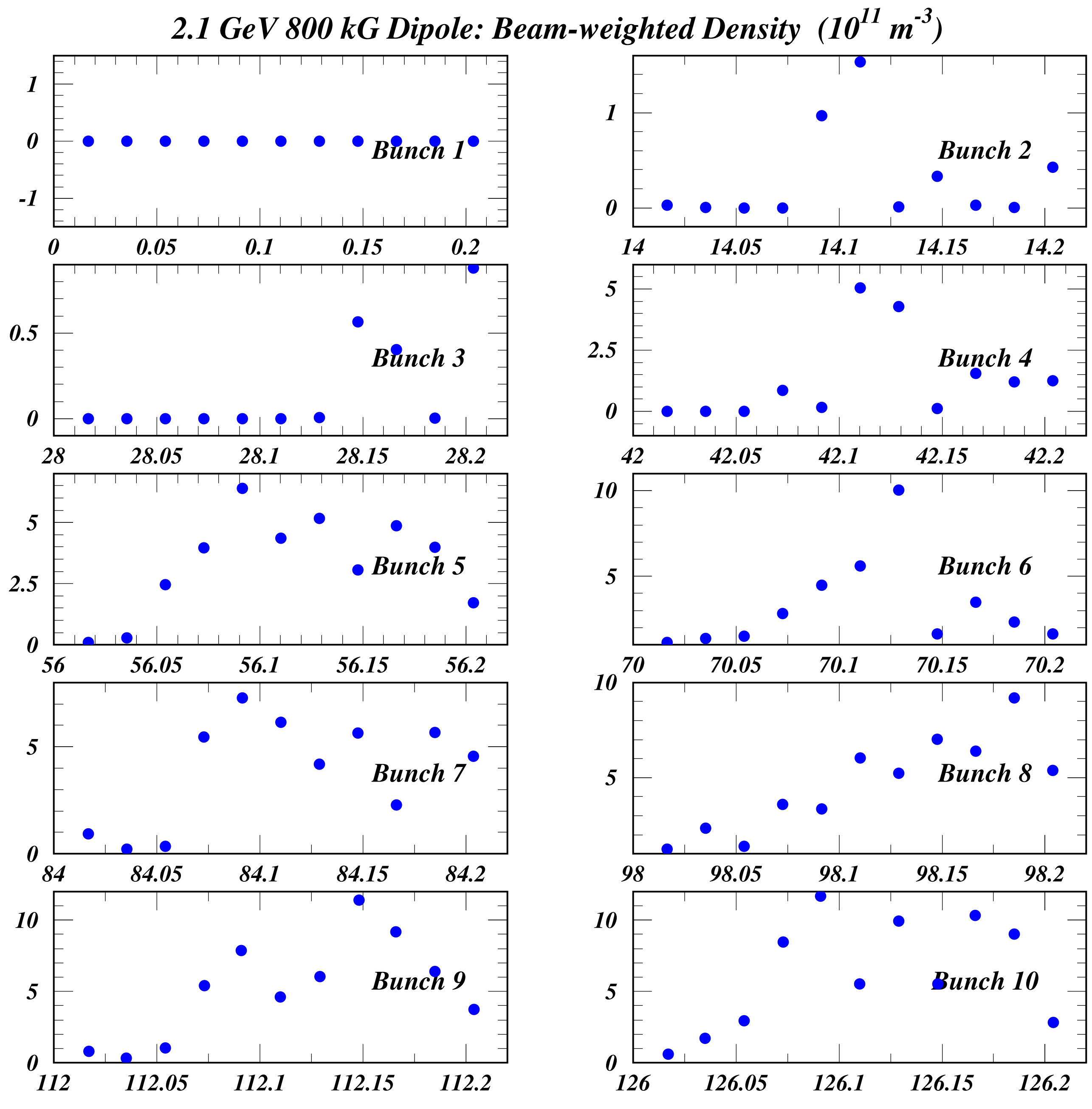
2.1 GeV 800 kG Dipole: Field Gradient dE_Y /dY (V/m^2)
2720
2710
2700
2690
280
280.05
280.1
280.15
280.2
Bunch 21
Time (ns)
2500
2250
2000
294
294.05
294.1
294.15
294.2
Bunch 22
Time (ns)


2.1 GeV 800 kG Dipole: 5σ Central Density (10^11 m^-3)
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10

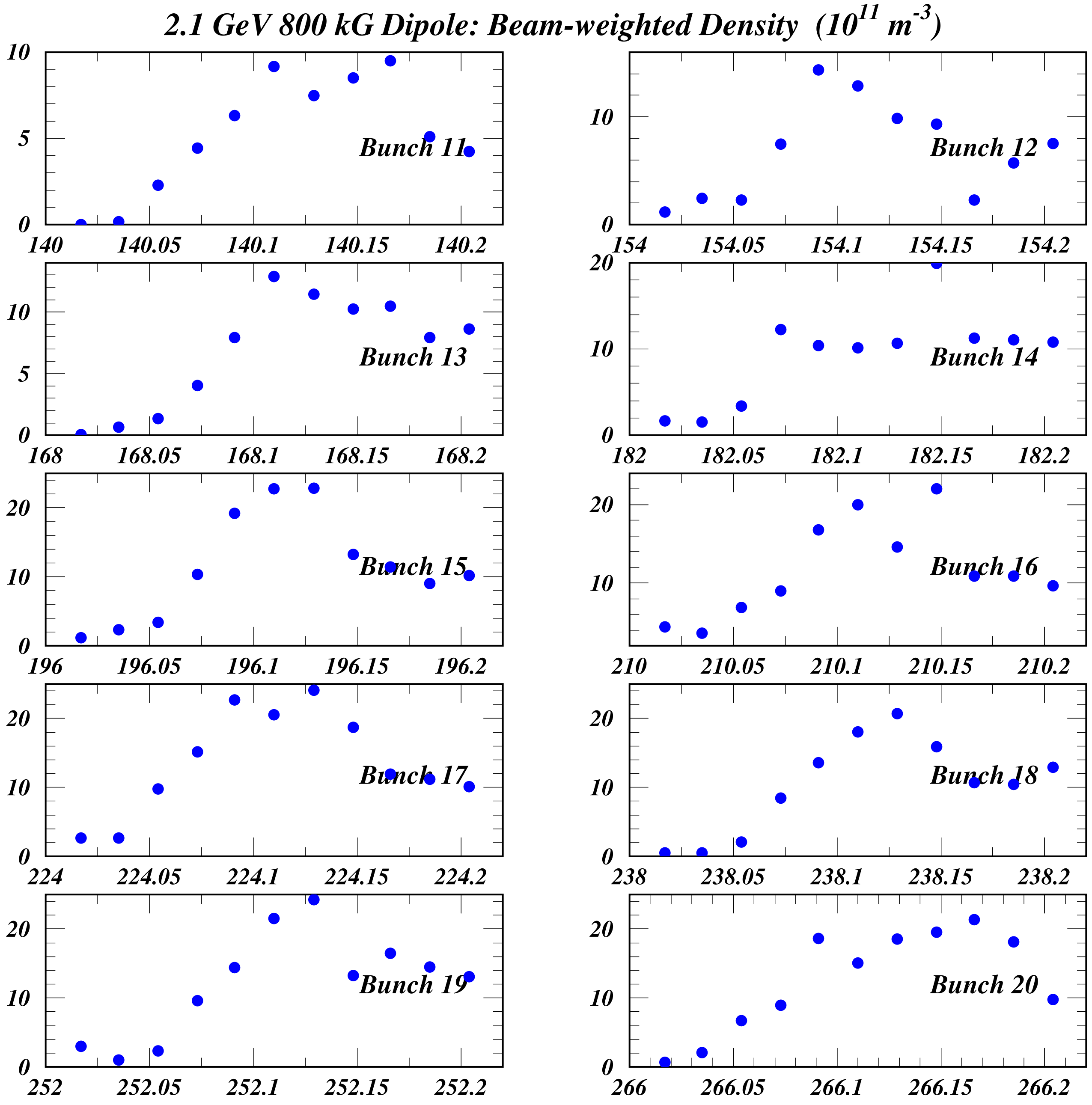
2.1 GeV 800 kG Dipole: 5σ Central Density (10^{11} m^{-3})

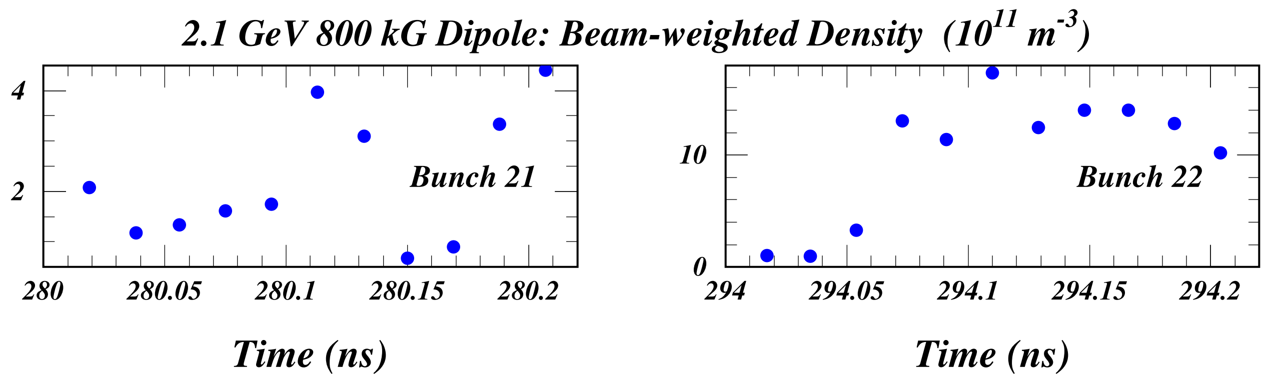



2.1 GeV 800 kG Dipole: 5σ Central Density (10^11 m^-3)
2.4
2.3
280
280.05
280.1
280.15
280.2
Bunch 21
Time (ns)
3
2
294
294.05
294.1
294.15
294.2
Bunch 22
Time (ns)



2.1 GeV 800 kG Dipole: Beam-weighted Density $(10^{11}\ m^{-3})$
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10


2.1 GeV 800 kG Dipole: Beam-weighted Density $(10^{11}\ m^{-3})$
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20


2.1 GeV 800 kG Dipole: Beam-weighted Density (10^{11} m^{-3})
4
2
Bunch 21
280
280.05
280.1
280.15
280.2
Time (ns)
10
0
Bunch 22
294
294.05
294.1
294.15
294.2
Time (ns)