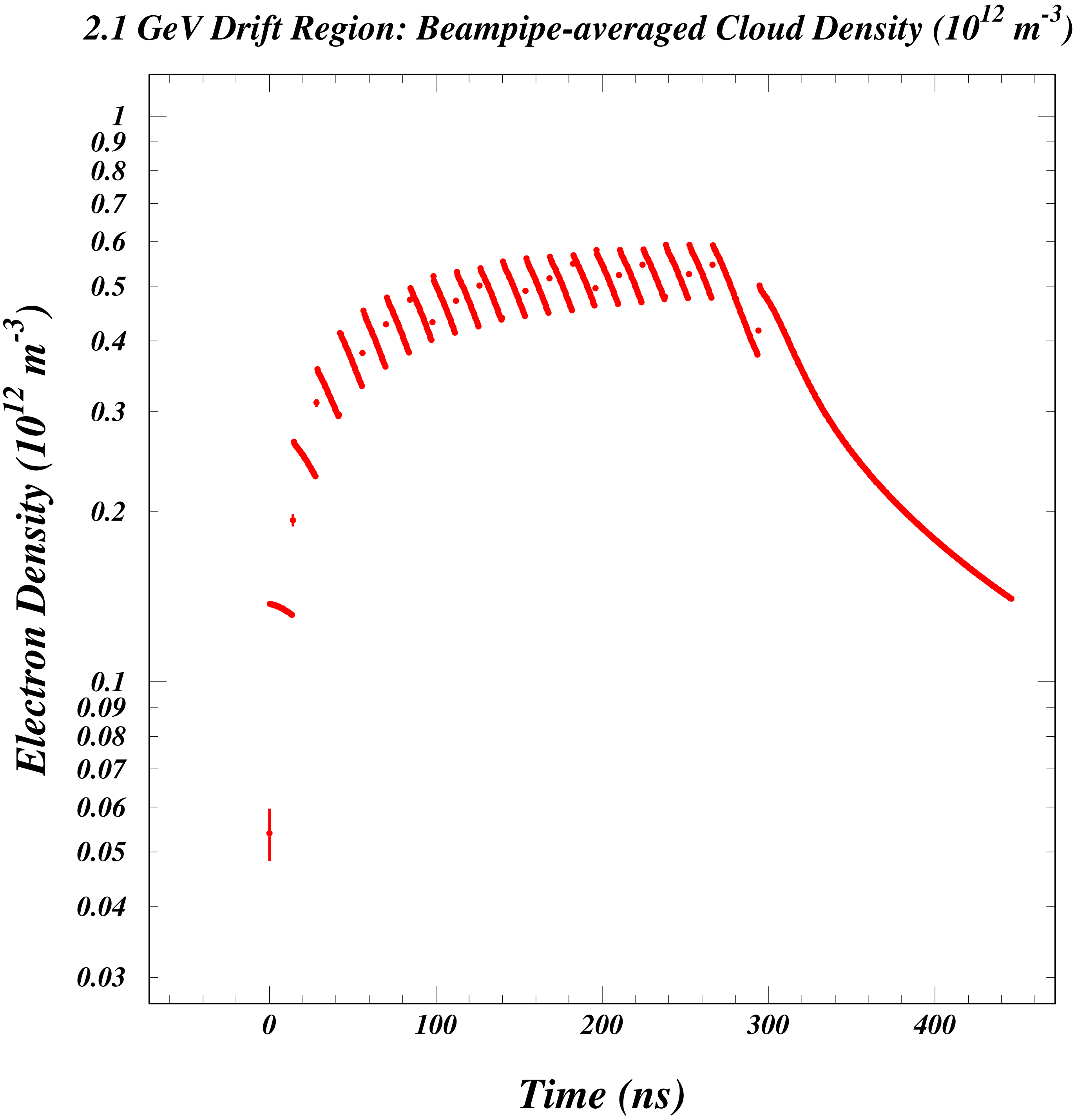
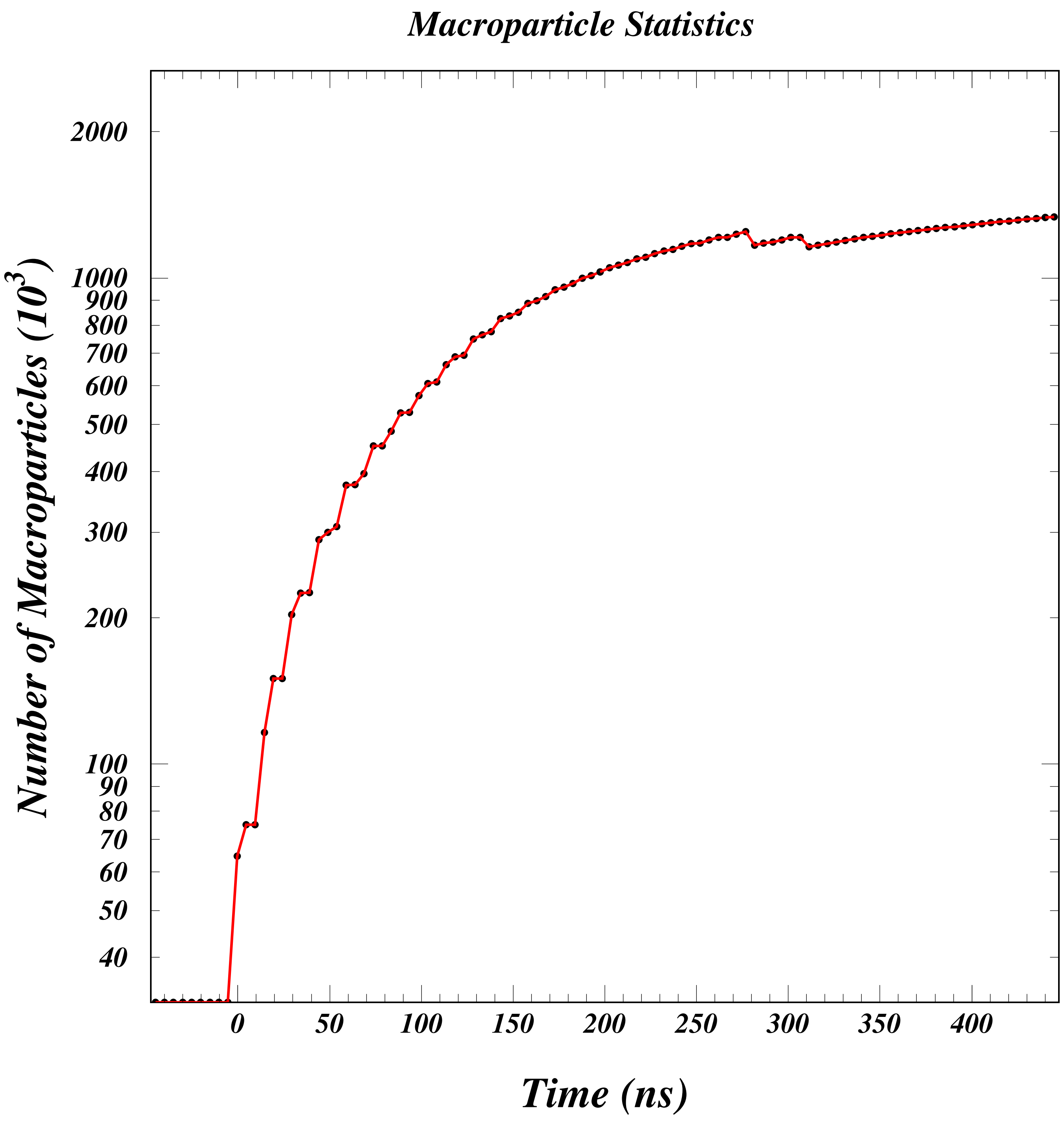
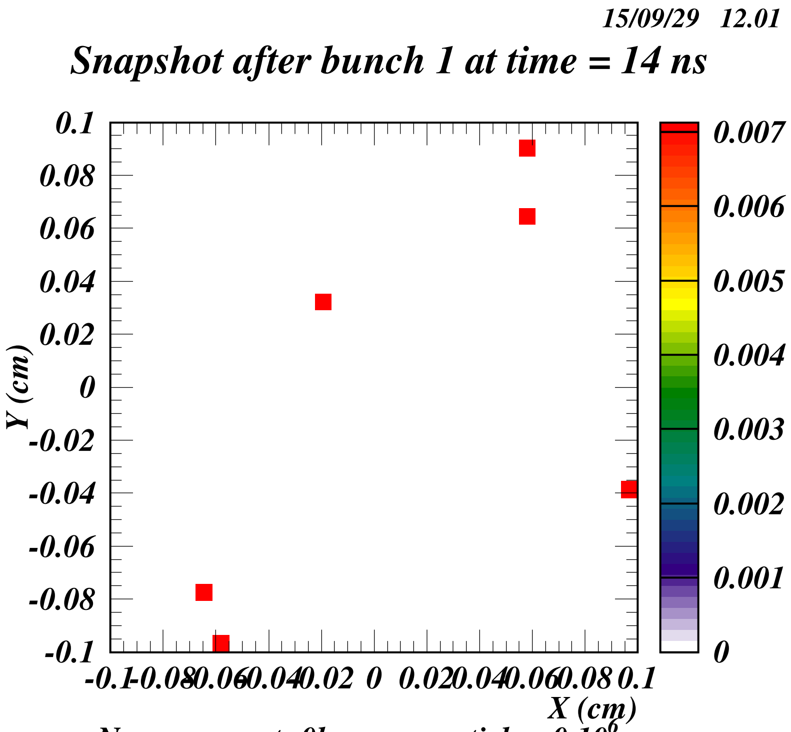
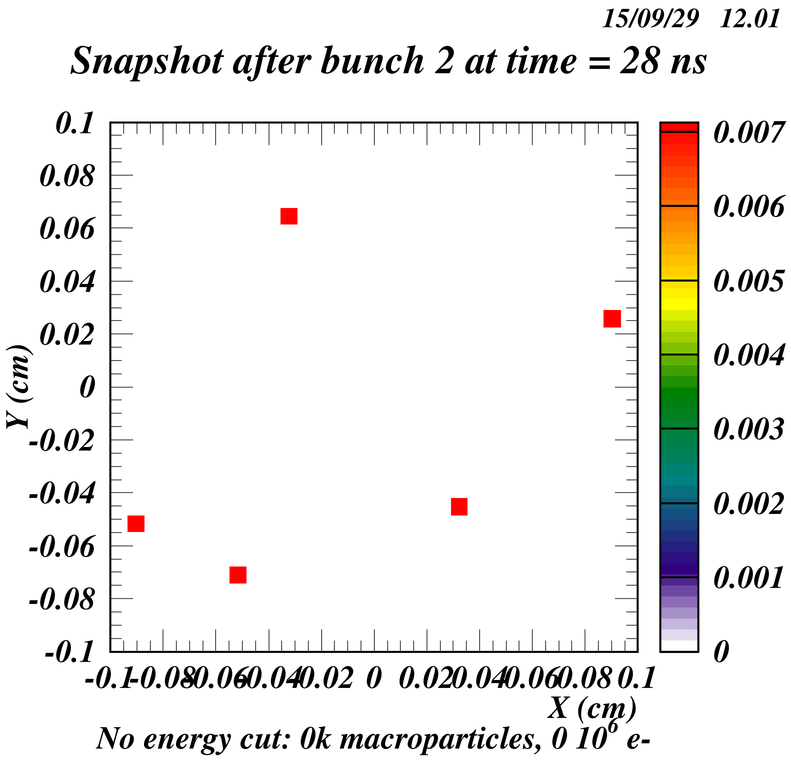

2.1 GeV Drift Region: Beampipe-averaged Cloud Density (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
Time (ns)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0
100
200
300
400



Macroparticle Statistics
Number of Macroparticles (10^3)
2000
1000
900
800
700
600
500
400
300
200
100
90
80
70
60
50
40
0
50
100
150
200
250
300
350
400
Time (ns)



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



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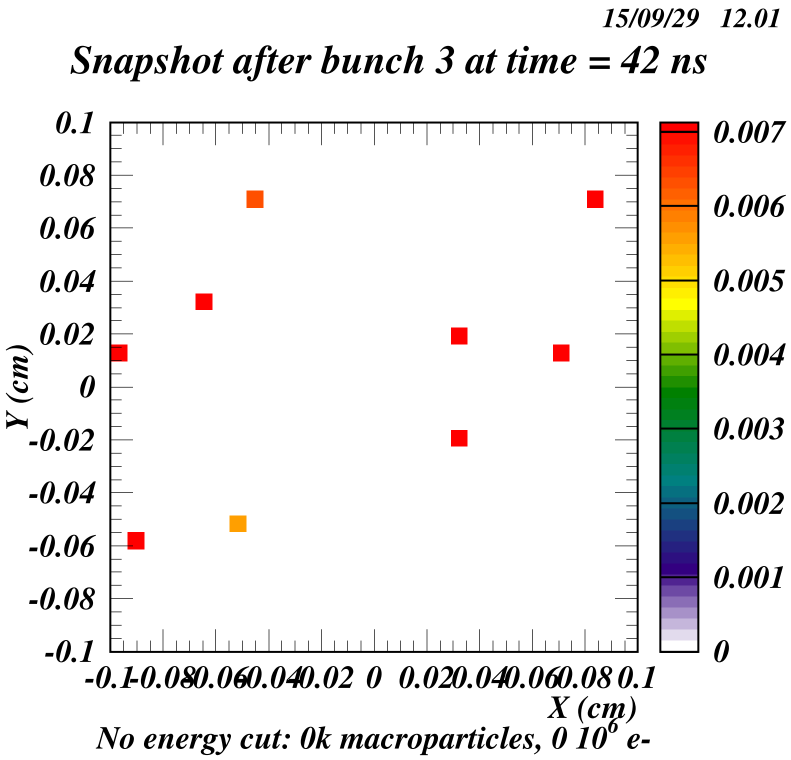
Snapshot after bunch 2 at time = 28 ns
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
Y (cm)
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1
X (cm)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
No energy cut: 0k macroparticles, 0 10^6 e-



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Snapshot after bunch 3 at time = 42 ns
Y (cm)
X (cm)
No energy cut: 0k macroparticles, 0 10^6 e-

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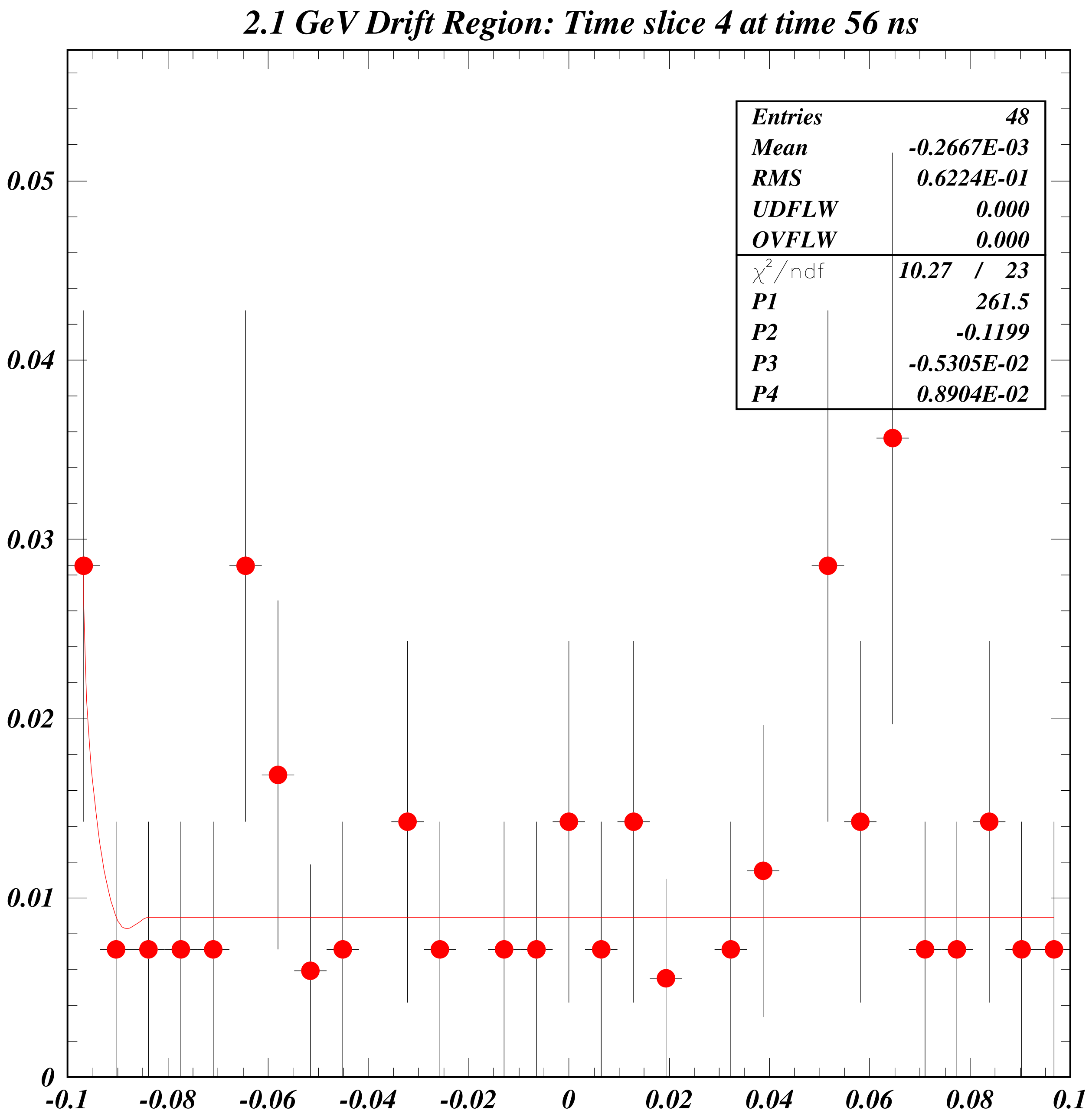
2.1 GeV Drift Region: Time slice 4 at time 56 ns
Entries 48
Mean -0.2667E-03
RMS 0.6224E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 10.27 / 23
P1 261.5
P2 -0.1199
P3 -0.5305E-02
P4 0.8904E-02
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

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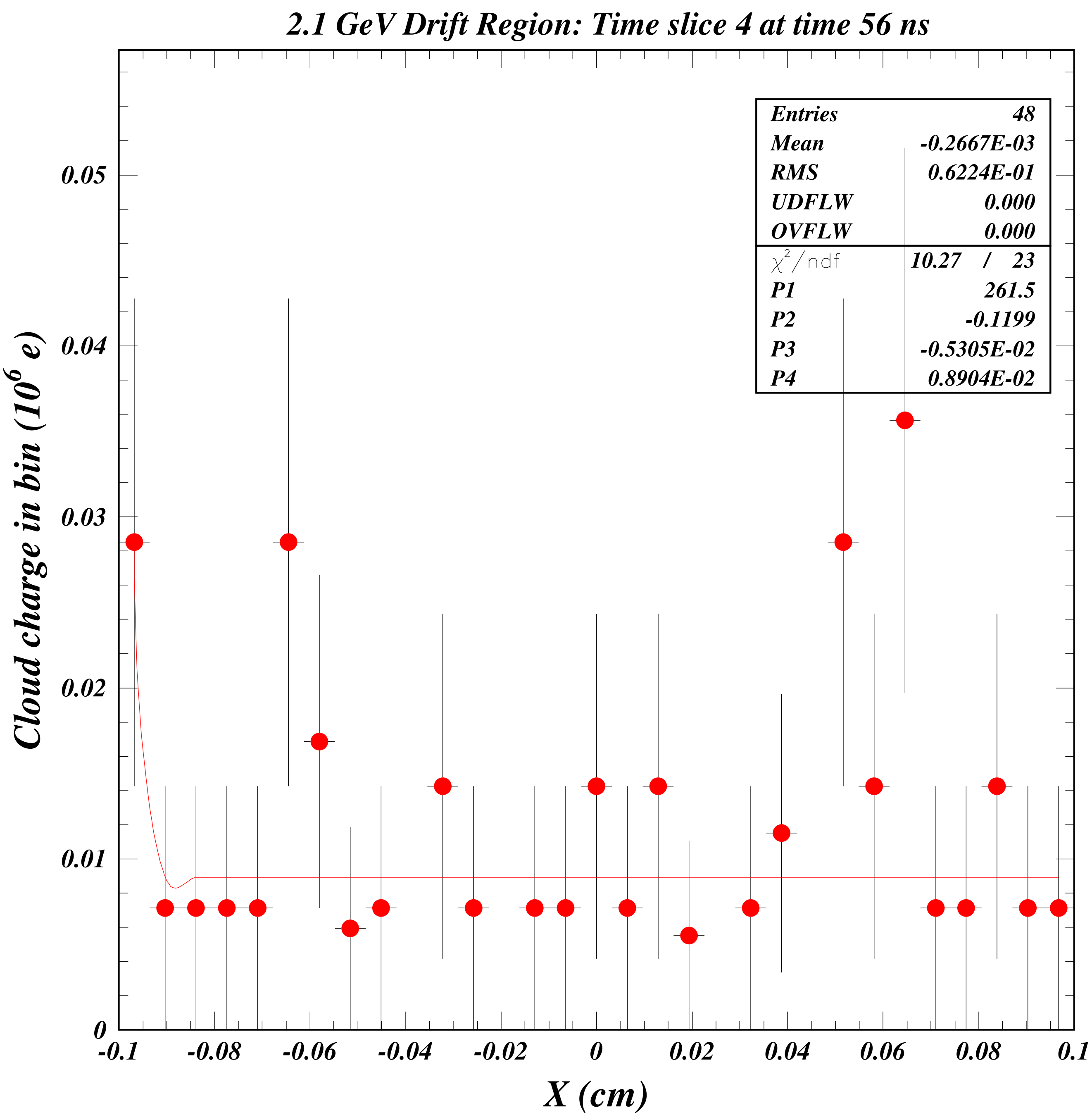

2.1 GeV Drift Region: Time slice 4 at time 56 ns
Entries 48
Mean -0.2667E-03
RMS 0.6224E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 10.27 / 23
P1 261.5
P2 -0.1199
P3 -0.5305E-02
P4 0.8904E-02
Cloud charge in bin (10⁶ e)
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
X (cm)

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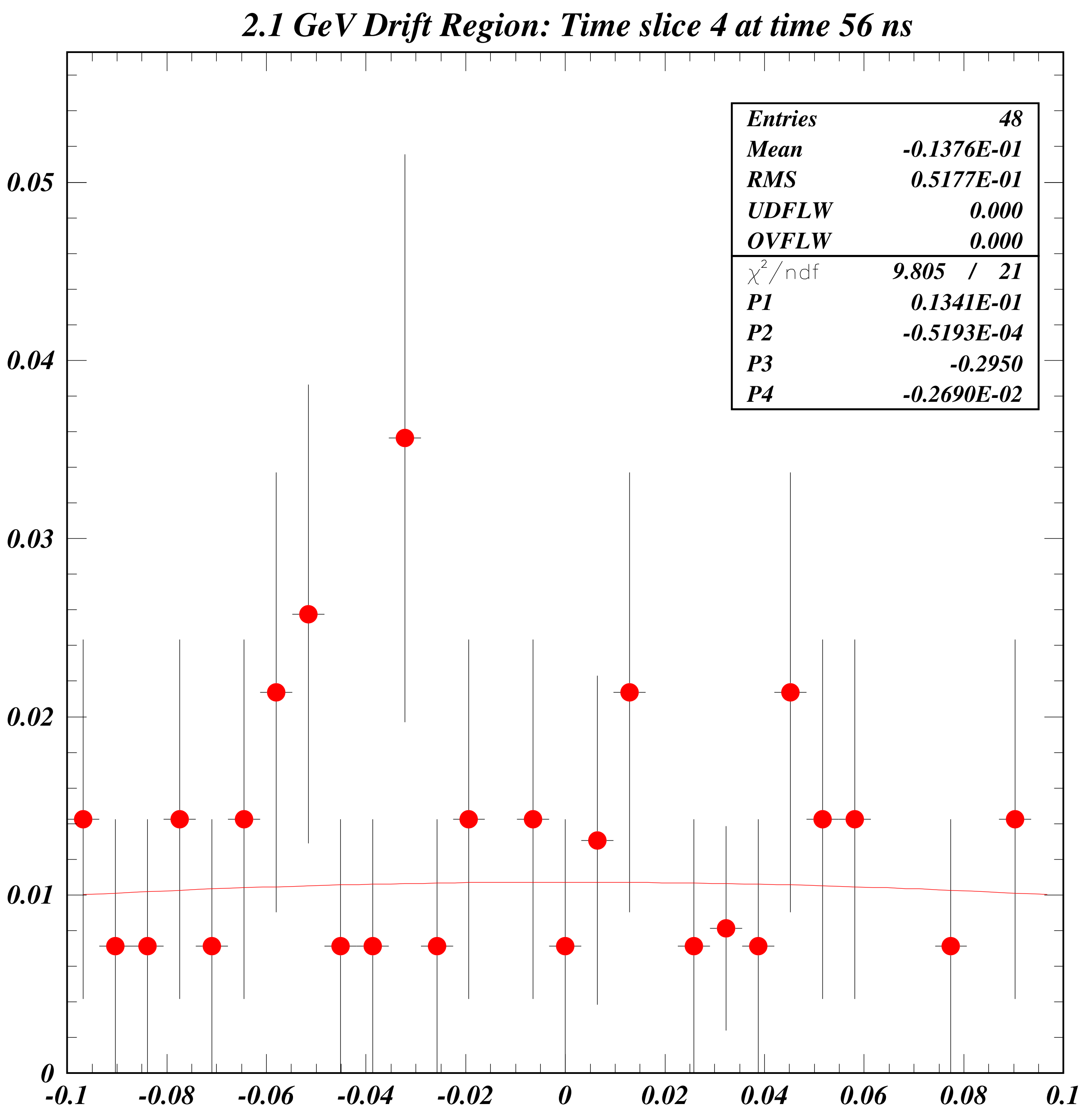
2.1 GeV Drift Region: Time slice 4 at time 56 ns
Entries 48
Mean -0.1376E-01
RMS 0.5177E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 9.805 / 21
P1 0.1341E-01
P2 -0.5193E-04
P3 -0.2950
P4 -0.2690E-02
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

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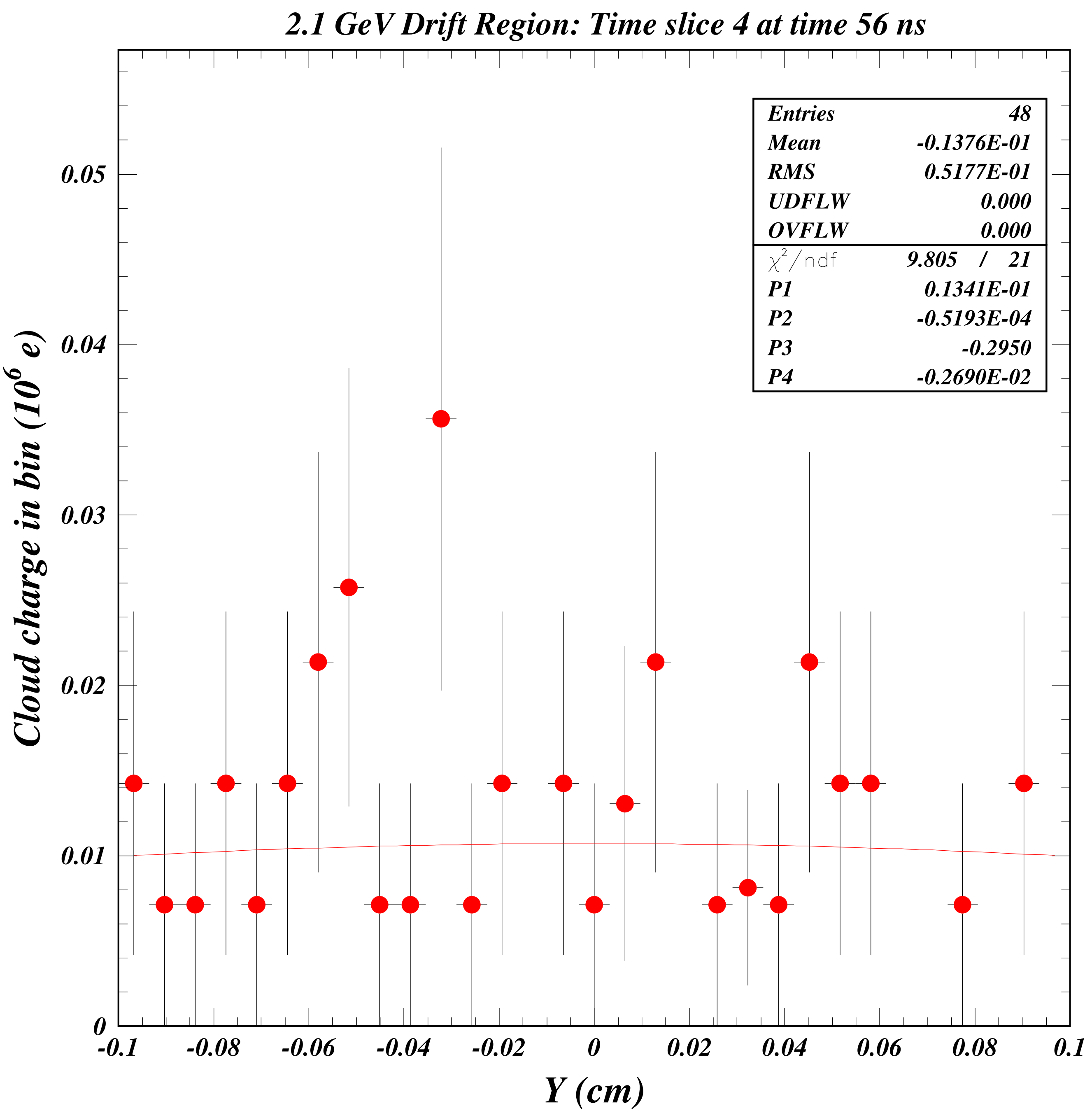
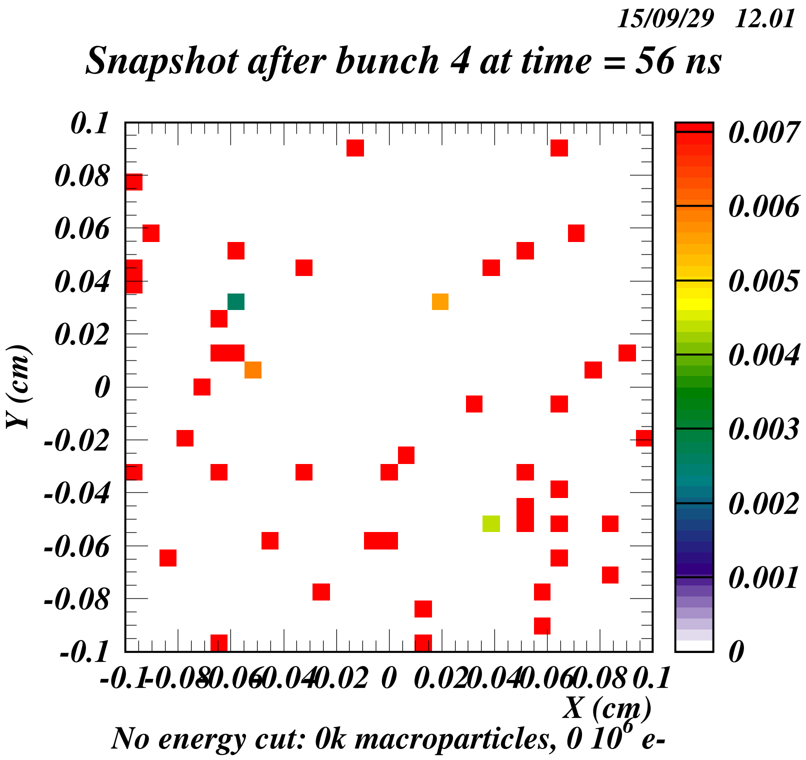

2.1 GeV Drift Region: Time slice 4 at time 56 ns
Entries 48
Mean -0.1376E-01
RMS 0.5177E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 9.805 / 21
P1 0.1341E-01
P2 -0.5193E-04
P3 -0.2950
P4 -0.2690E-02
Cloud charge in bin (10⁶ e)
0.05
0.04
0.03
0.02
0.01
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
Y (cm)


15/09/29 12.01
Snapshot after bunch 4 at time = 56 ns
Y (cm)
X (cm)
No energy cut: 0k macroparticles, 0 10^6 e-
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

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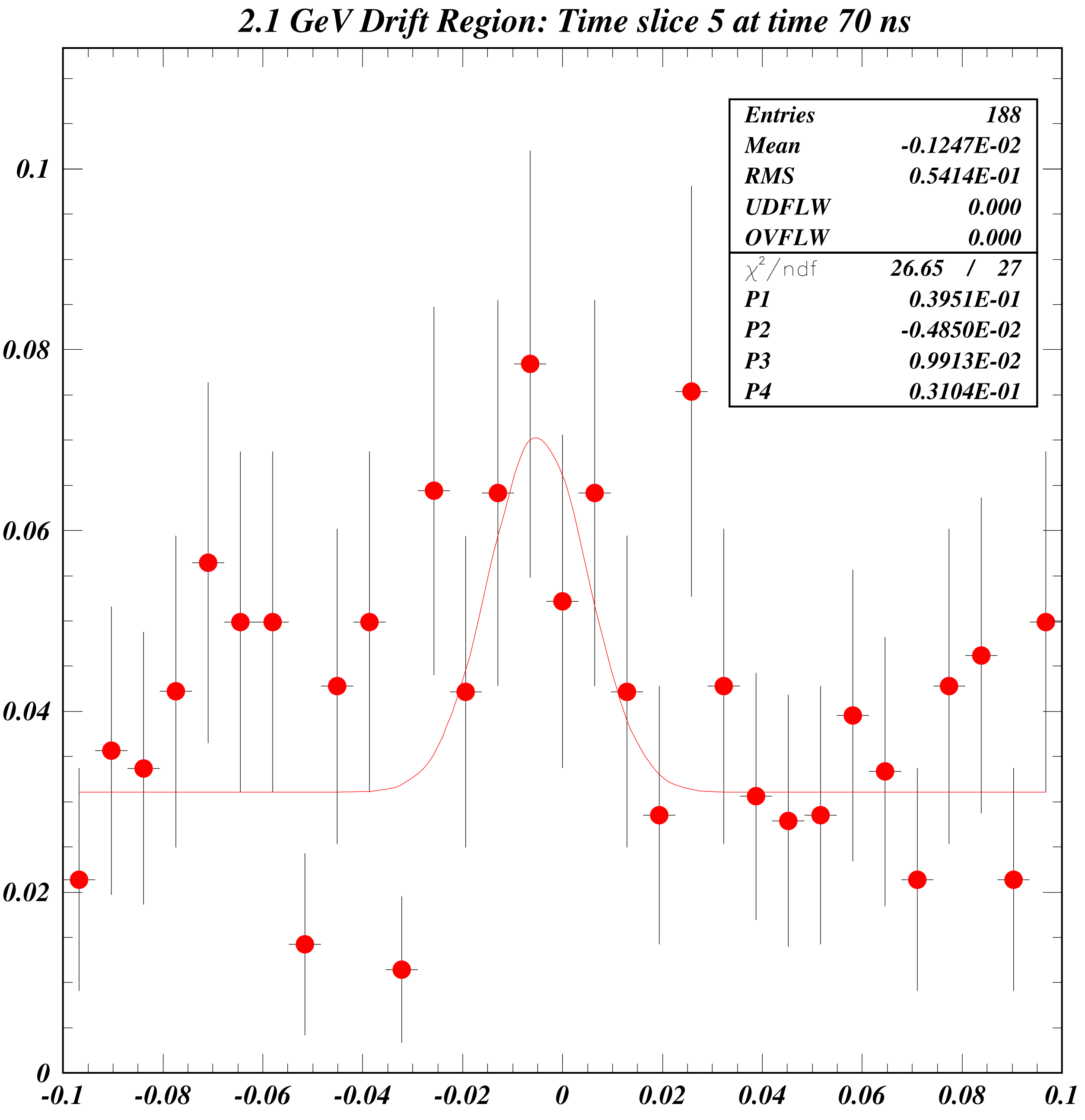
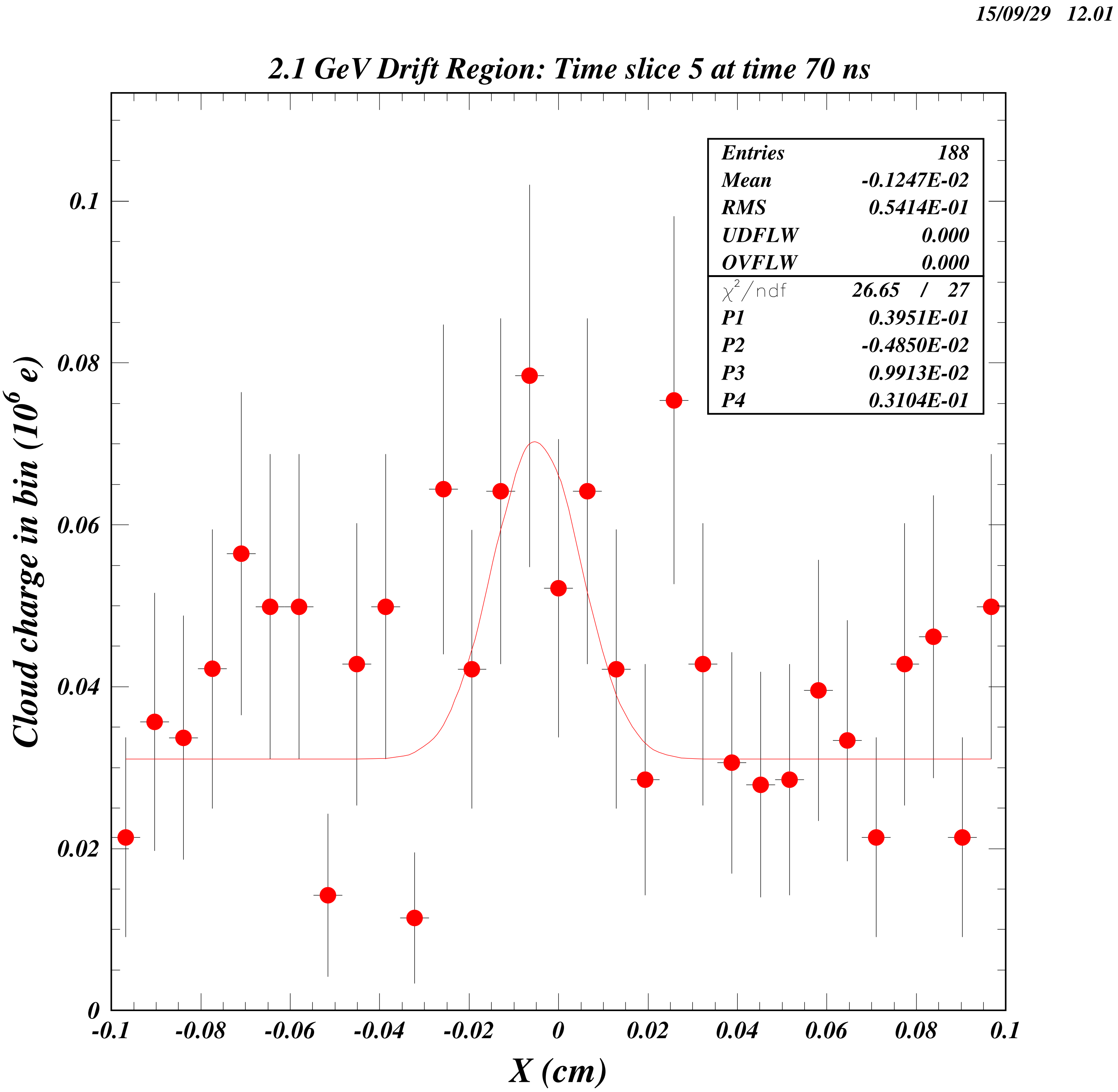

2.1 GeV Drift Region: Time slice 5 at time 70 ns
Entries 188
Mean -0.1247E-02
RMS 0.5414E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 26.65 / 27
P1 0.3951E-01
P2 -0.4850E-02
P3 0.9913E-02
P4 0.3104E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



15/09/29 12.01
2.1 GeV Drift Region: Time slice 5 at time 70 ns
Entries 188
Mean -0.1247E-02
RMS 0.5414E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 26.65 / 27
P1 0.3951E-01
P2 -0.4850E-02
P3 0.9913E-02
P4 0.3104E-01
Cloud charge in bin (10⁶ e)
X (cm)
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

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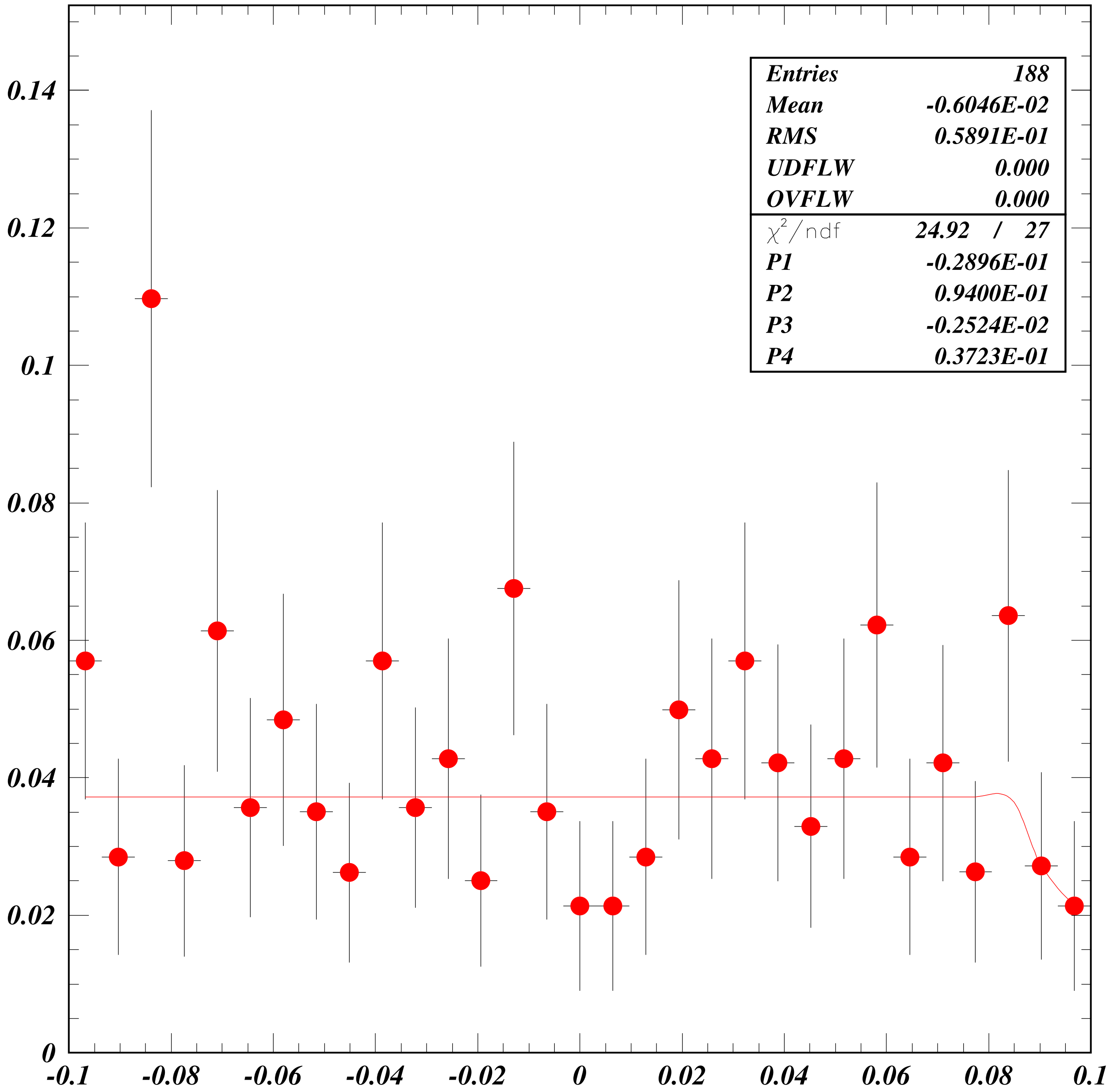
2.1 GeV Drift Region: Time slice 5 at time 70 ns
Entries 188
Mean -0.6046E-02
RMS 0.5891E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 24.92 / 27
P1 -0.2896E-01
P2 0.9400E-01
P3 -0.2524E-02
P4 0.3723E-01
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1

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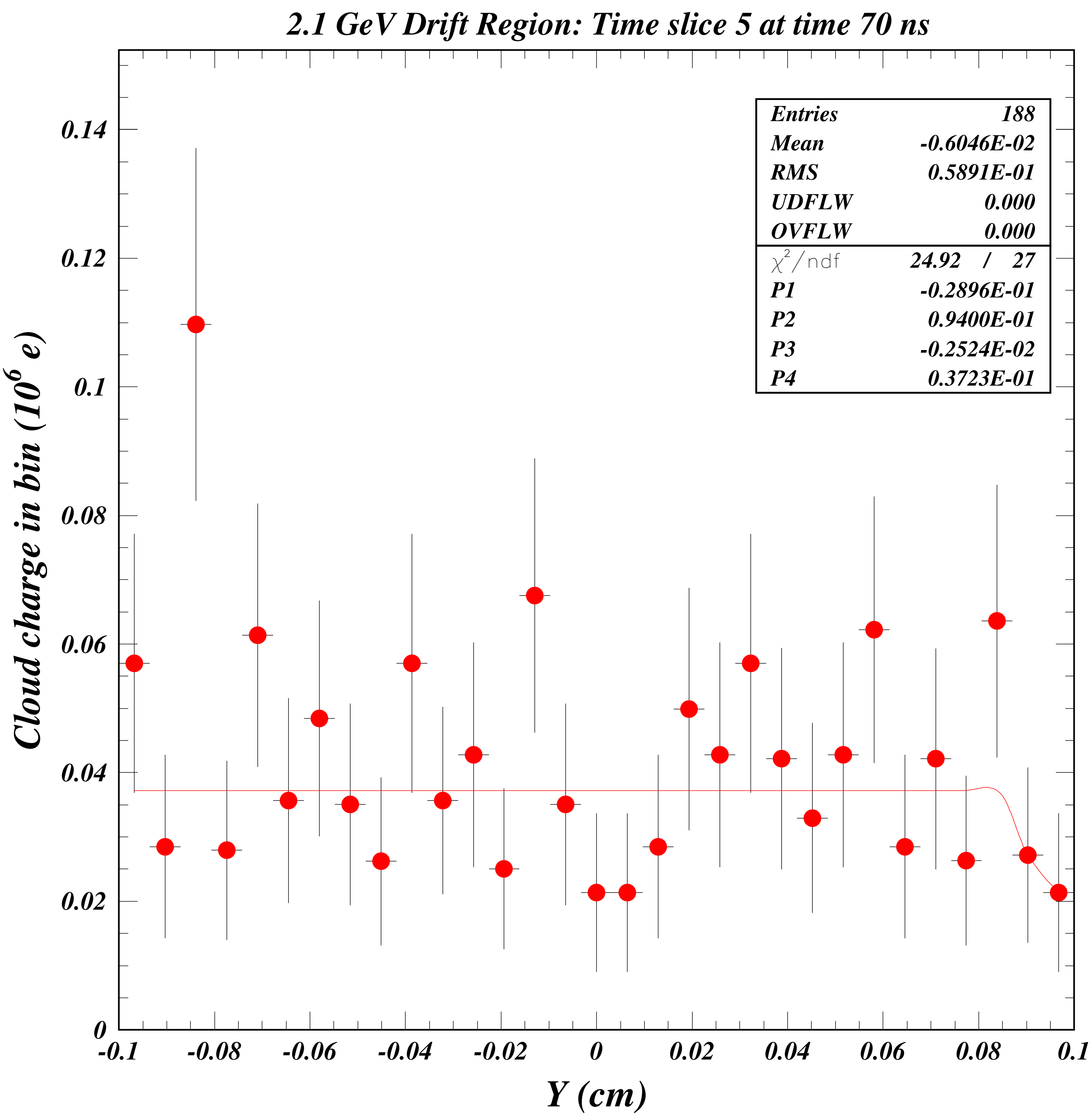
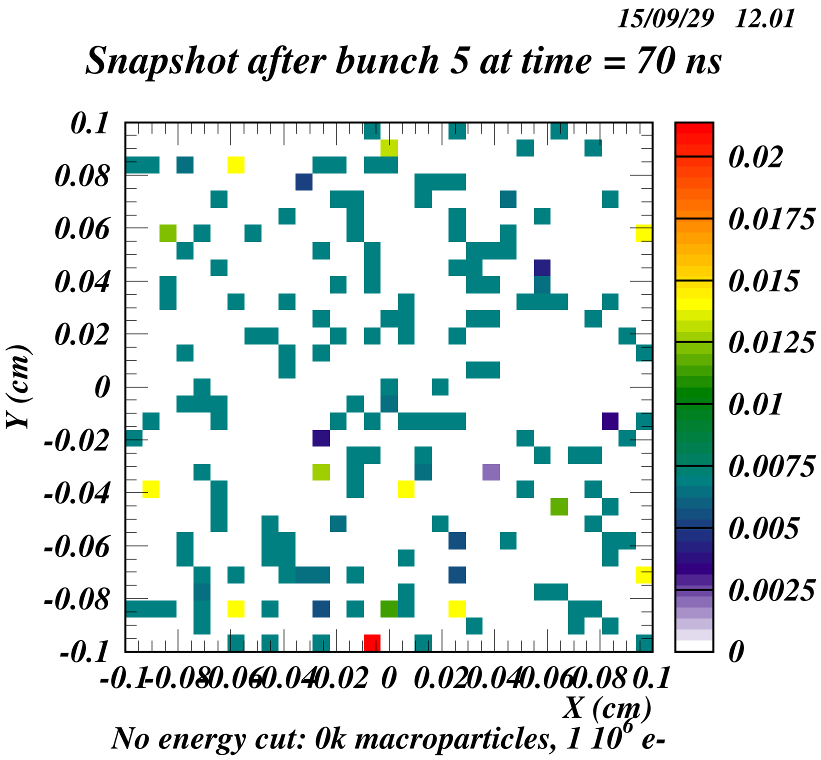
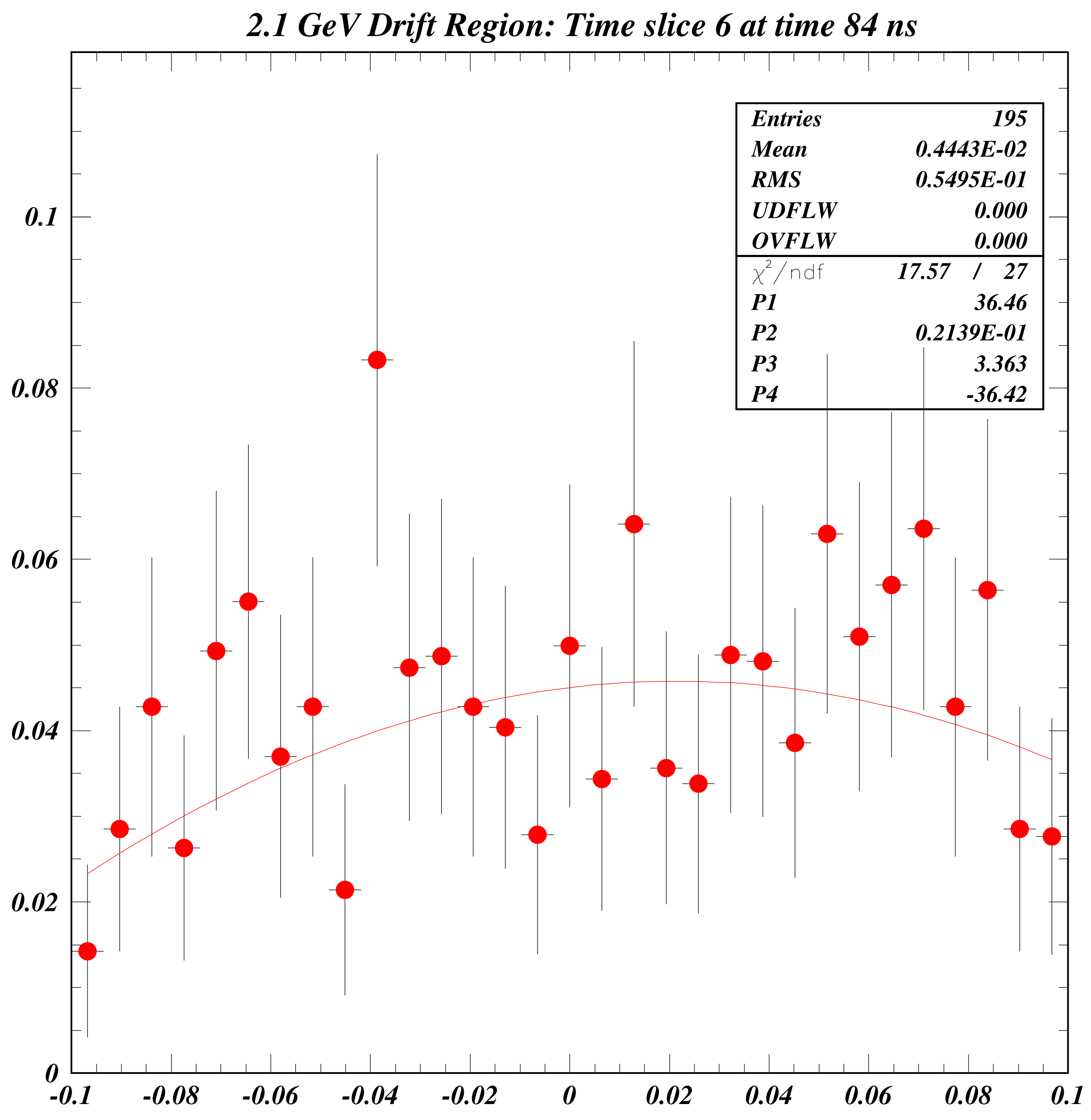


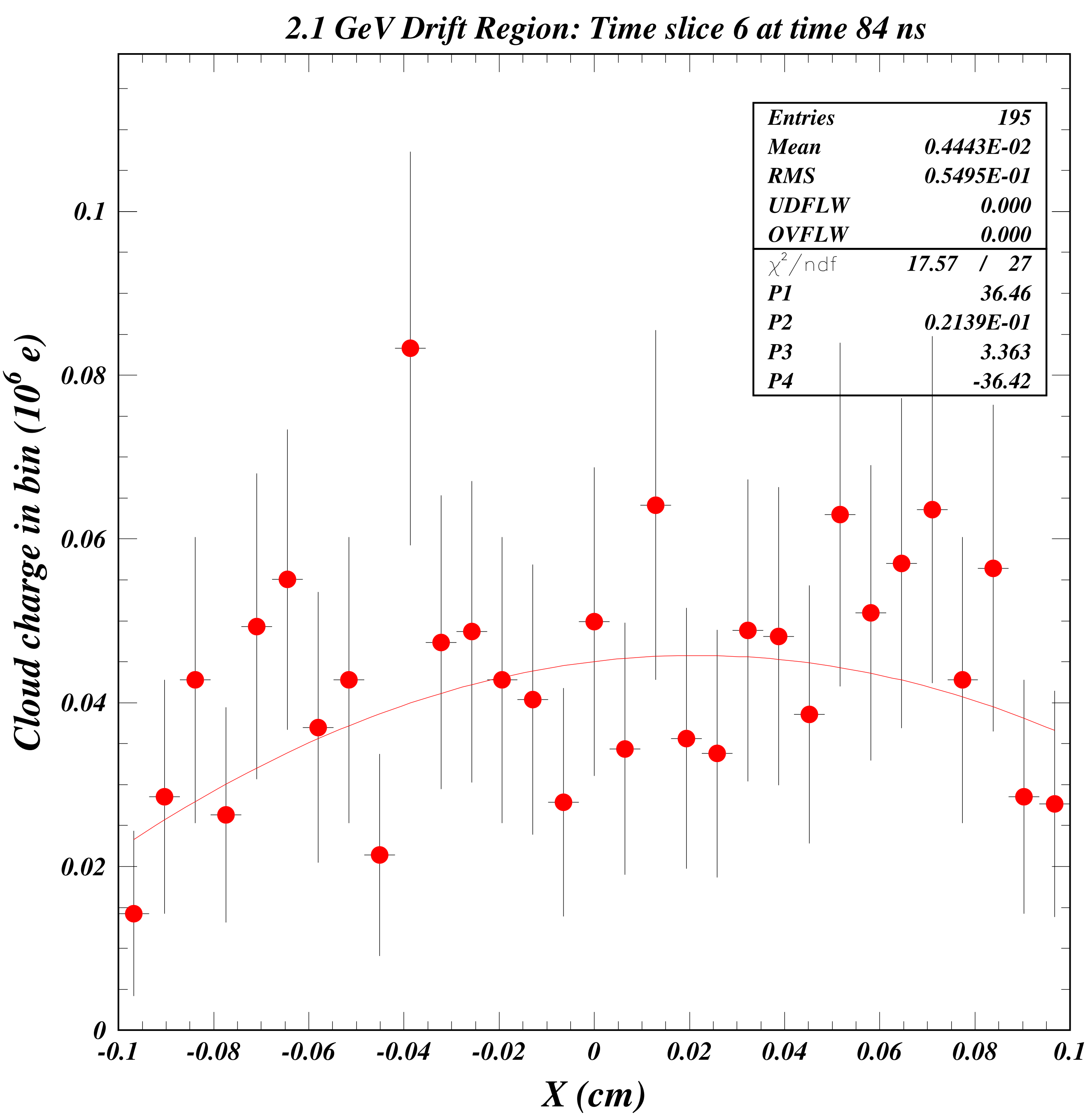
2.1 GeV Drift Region: Time slice 5 at time 70 ns
Entries 188
Mean -0.6046E-02
RMS 0.5891E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 24.92 / 27
P1 -0.2896E-01
P2 0.9400E-01
P3 -0.2524E-02
P4 0.3723E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
Snapshot after bunch 5 at time = 70 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
0
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01

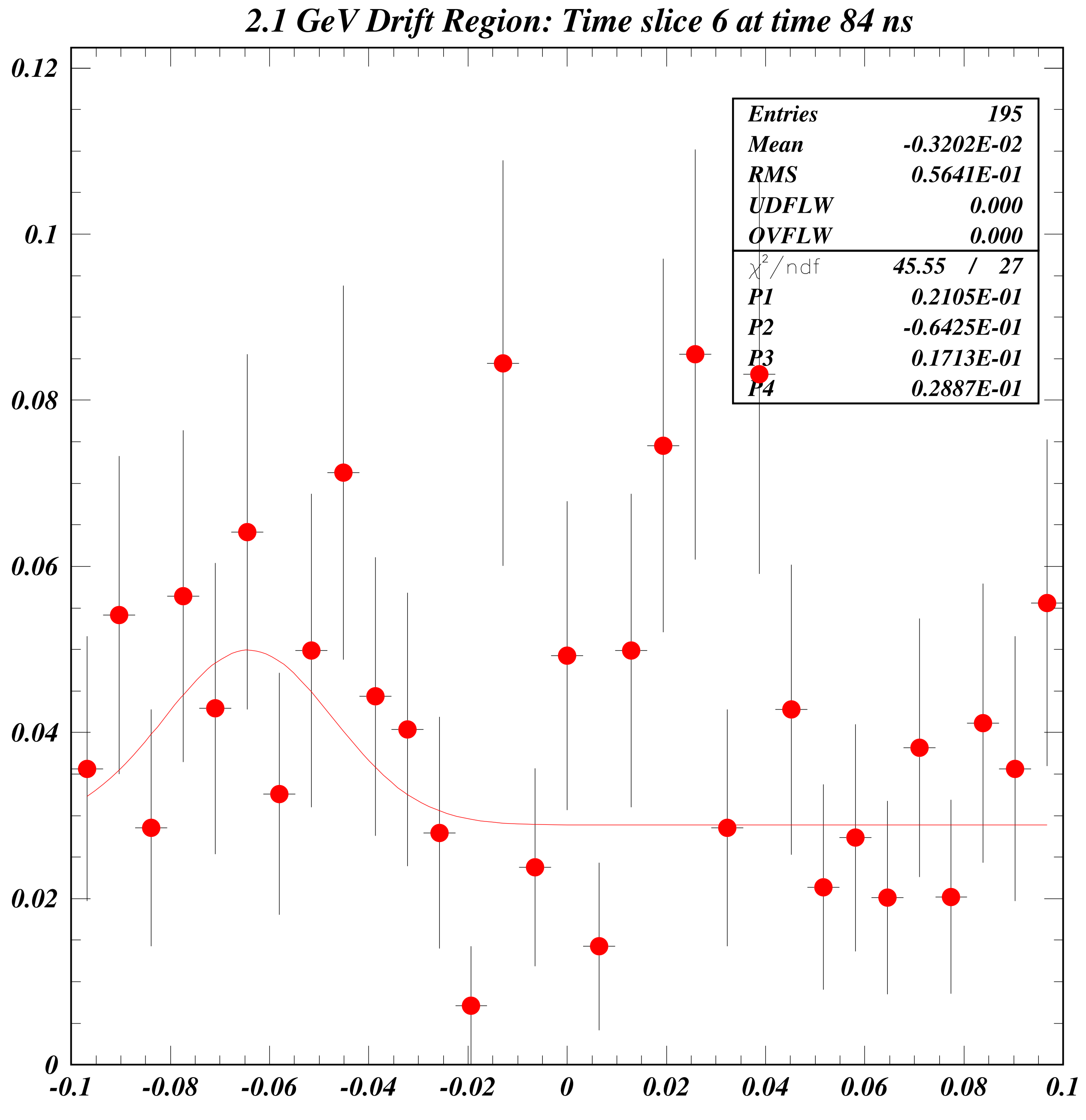

2.1 GeV Drift Region: Time slice 6 at time 84 ns
Entries 195
Mean 0.4443E-02
RMS 0.5495E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 17.57 / 27
P1 36.46
P2 0.2139E-01
P3 3.363
P4 -36.42
0.1
0.08
0.06
0.04
0.02
0
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1

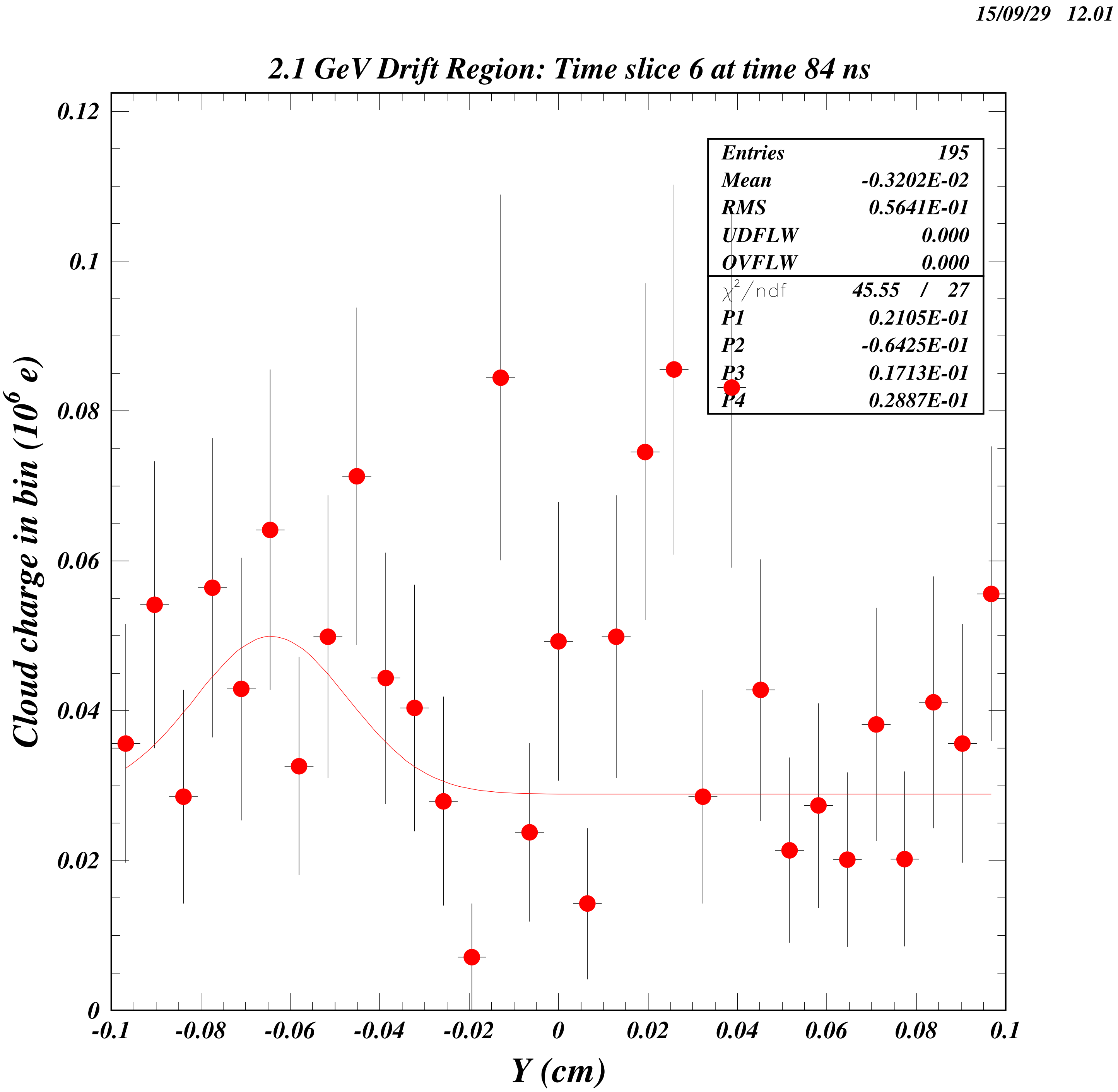
15/09/29 12.01

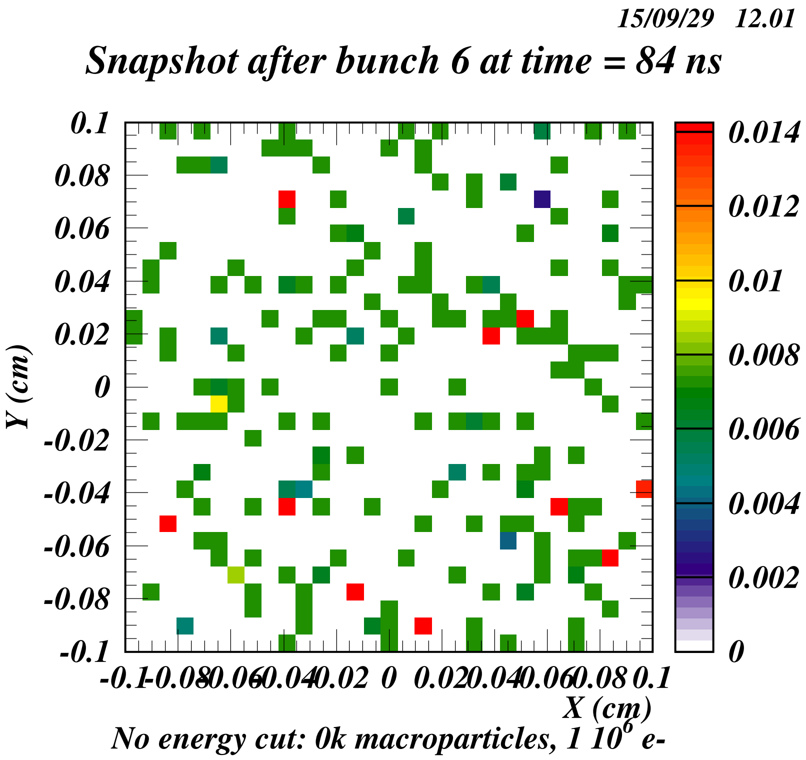


2.1 GeV Drift Region: Time slice 6 at time 84 ns
Entries 195
Mean 0.4443E-02
RMS 0.5495E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 17.57 / 27
P1 36.46
P2 0.2139E-01
P3 3.363
P4 -36.42
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01

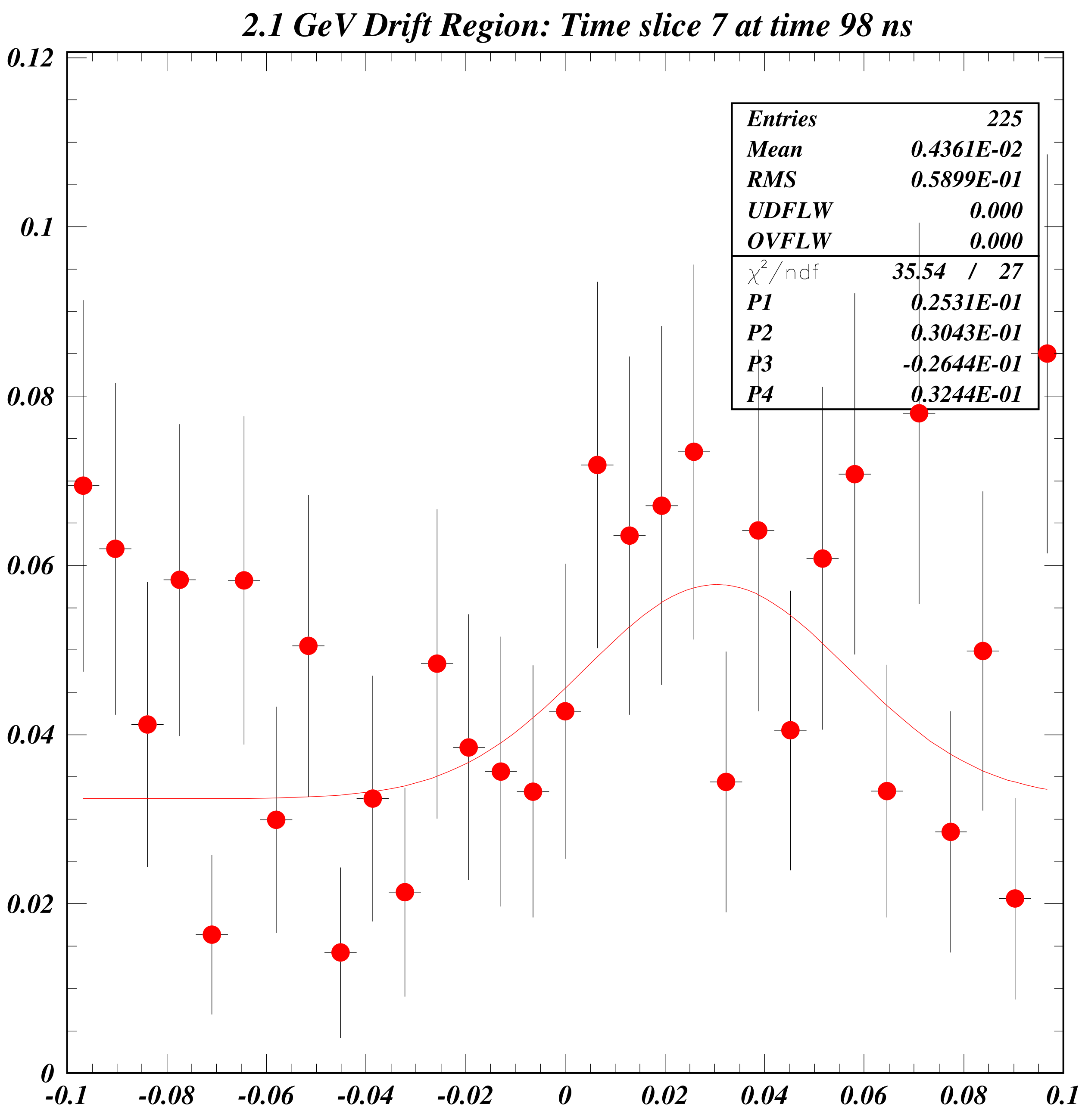

2.1 GeV Drift Region: Time slice 6 at time 84 ns
Entries 195
Mean -0.3202E-02
RMS 0.5641E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.55 / 27
P1 0.2105E-01
P2 -0.6425E-01
P3 0.1713E-01
P4 0.2887E-01
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 6 at time 84 ns
Entries 195
Mean -0.3202E-02
RMS 0.5641E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.55 / 27
P1 0.2105E-01
P2 -0.6425E-01
P3 0.1713E-01
P4 0.2887E-01
Cloud charge in bin (10^6 e)
Y (cm)
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

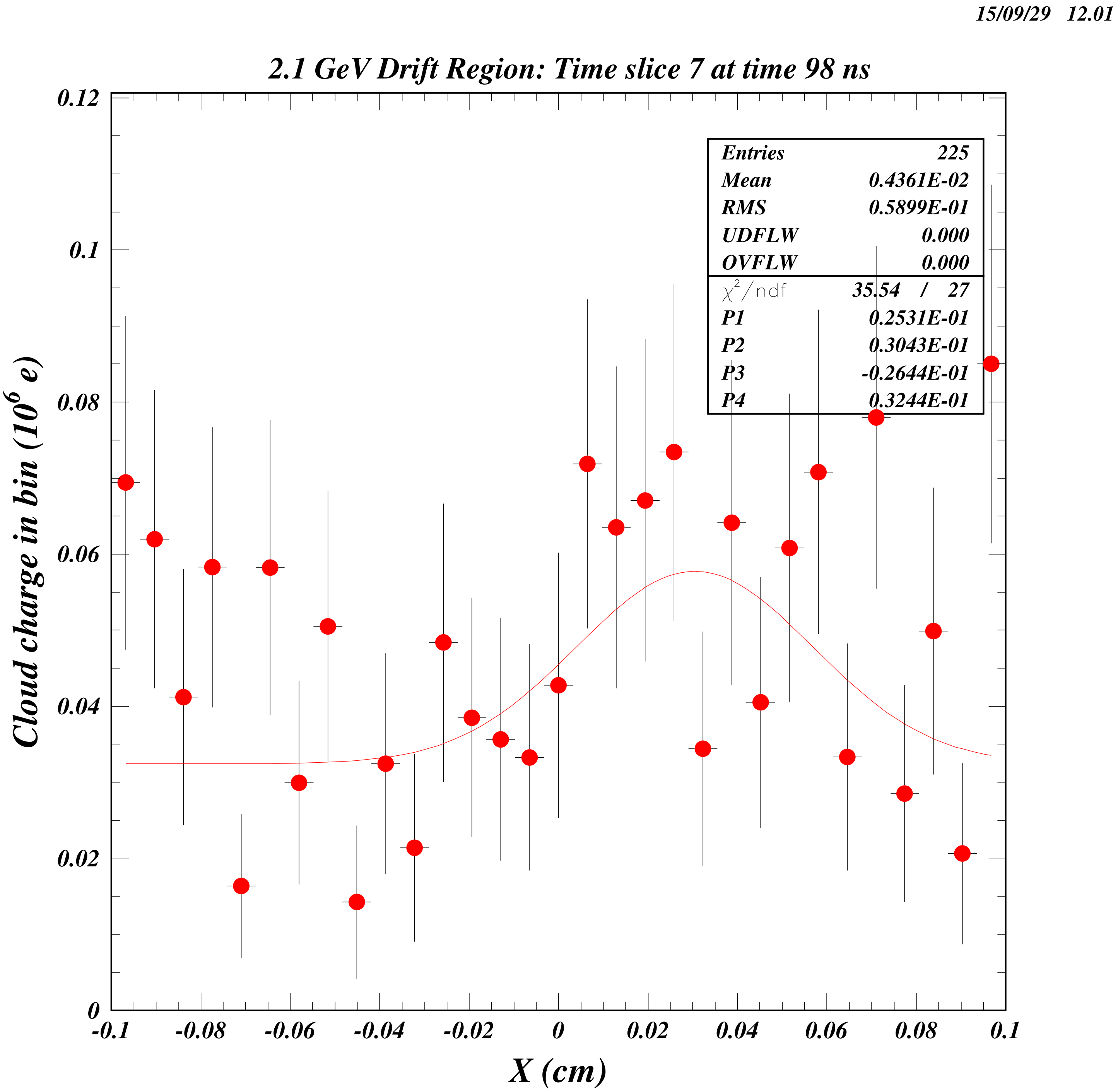


15/09/29 12.01
Snapshot after bunch 6 at time = 84 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.014
0.012
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01

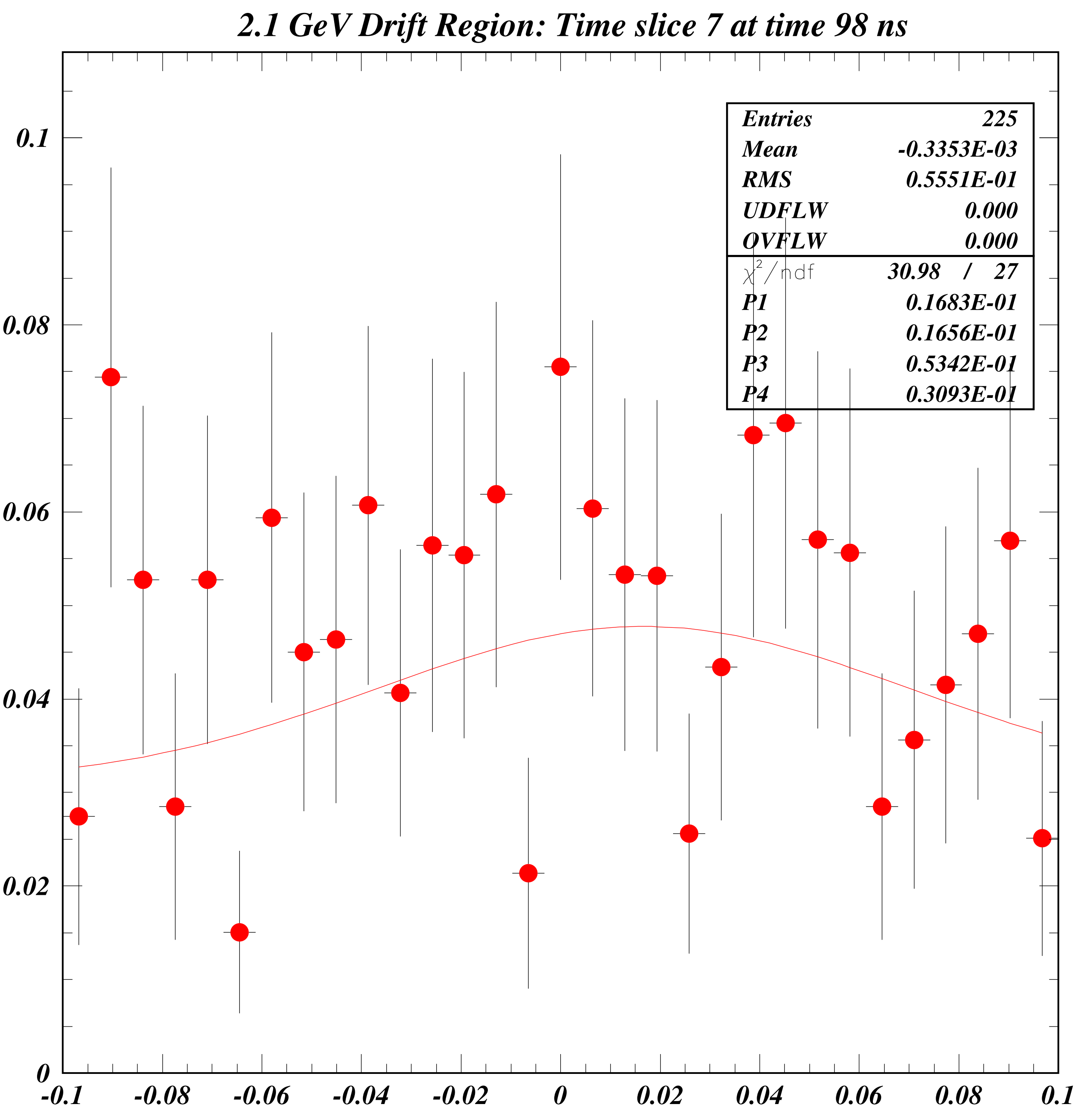


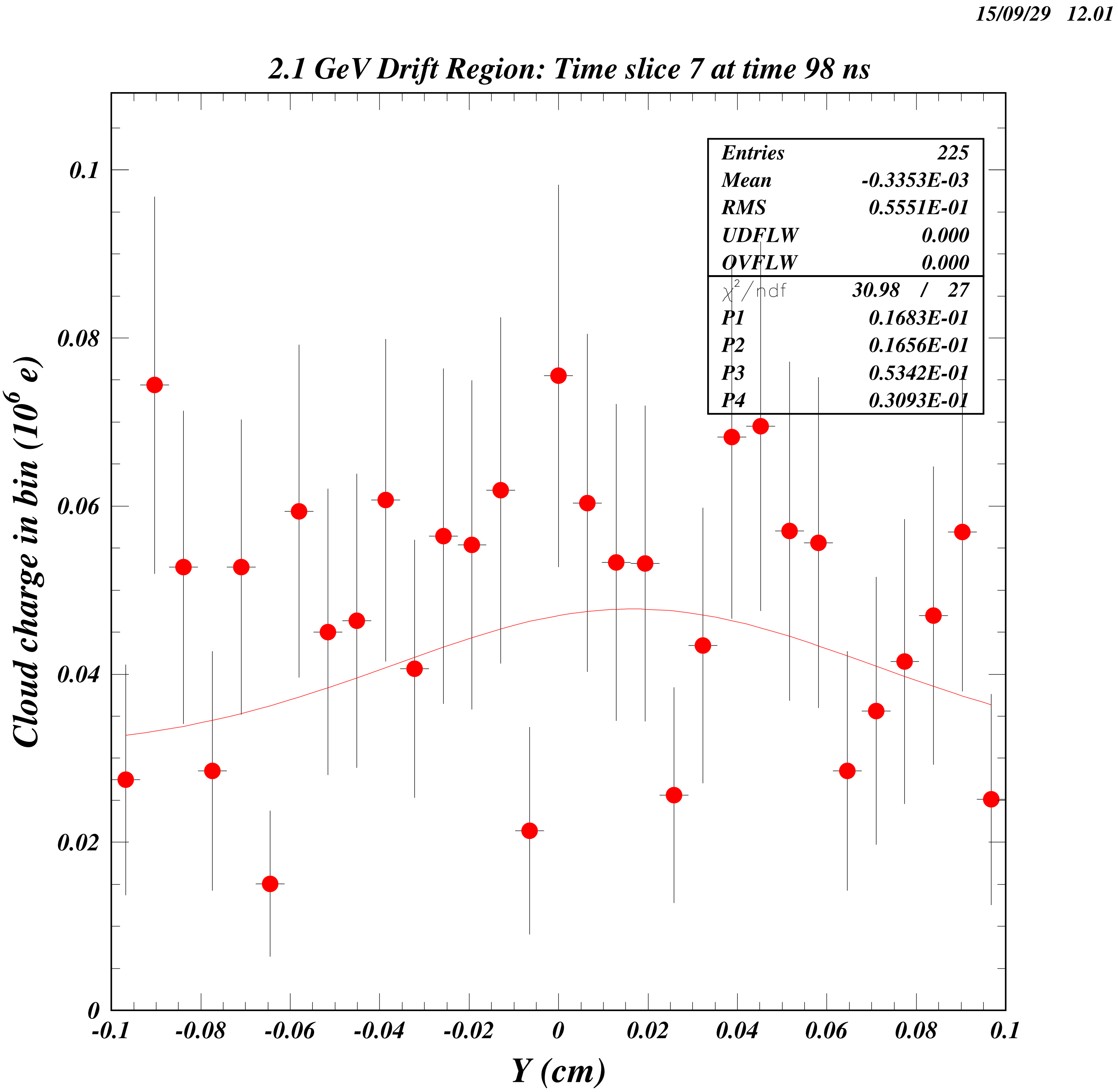
2.1 GeV Drift Region: Time slice 7 at time 98 ns
Entries 225
Mean 0.4361E-02
RMS 0.5899E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.54 / 27
P1 0.2531E-01
P2 0.3043E-01
P3 -0.2644E-01
P4 0.3244E-01
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



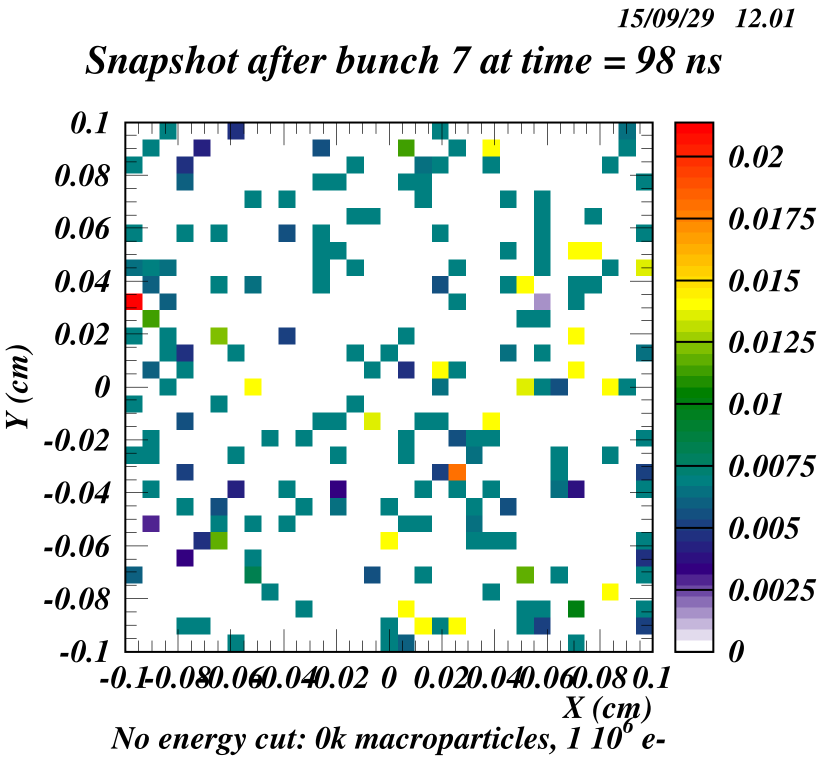
15/09/29 12.01
2.1 GeV Drift Region: Time slice 7 at time 98 ns
Entries 225
Mean 0.4361E-02
RMS 0.5899E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.54 / 27
P1 0.2531E-01
P2 0.3043E-01
P3 -0.2644E-01
P4 0.3244E-01
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29   12.01


2.1 GeV Drift Region: Time slice 7 at time 98 ns
Entries 225
Mean -0.3353E-03
RMS 0.5551E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 30.98 / 27
P1 0.1683E-01
P2 0.1656E-01
P3 0.5342E-01
P4 0.3093E-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

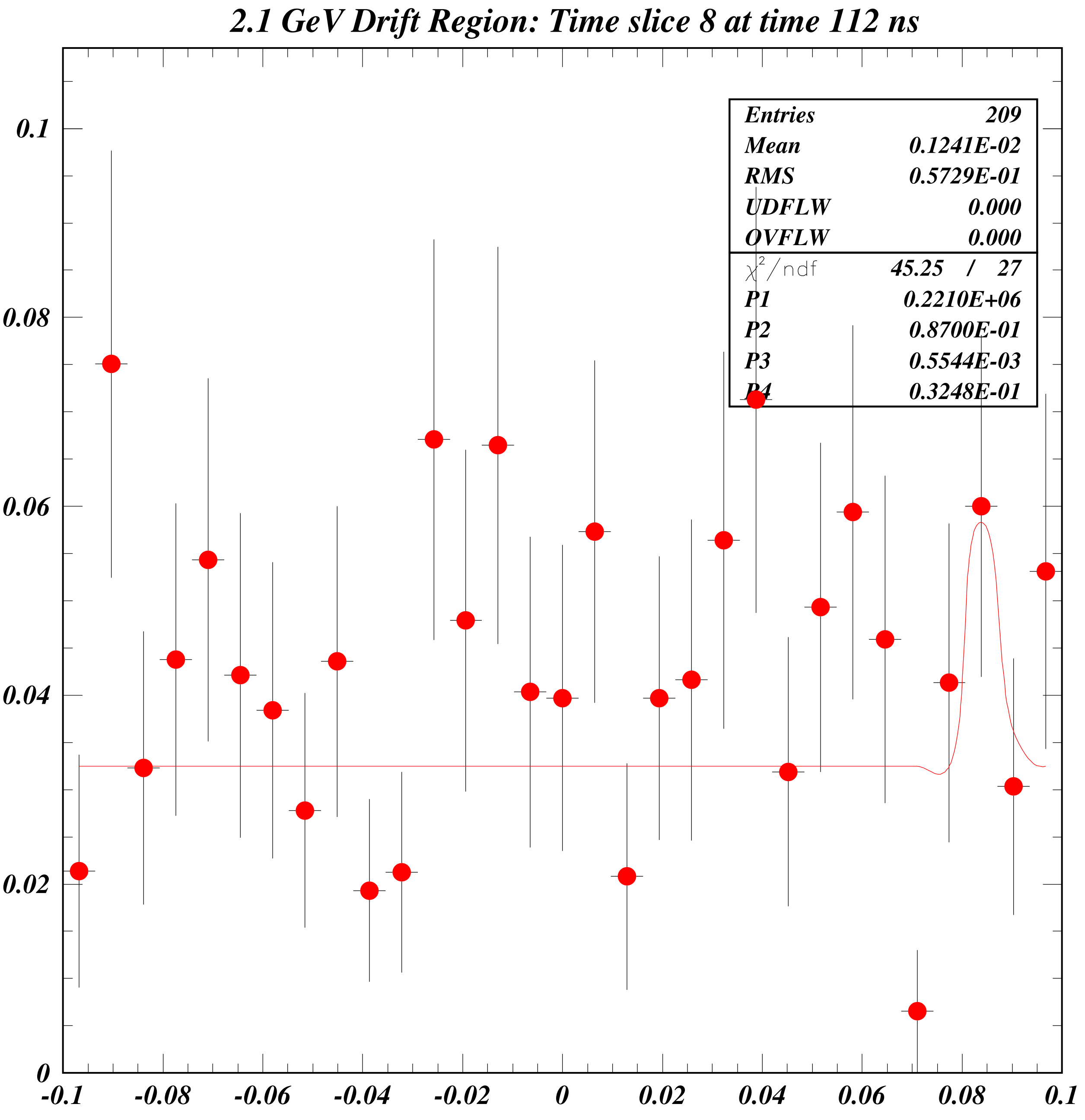


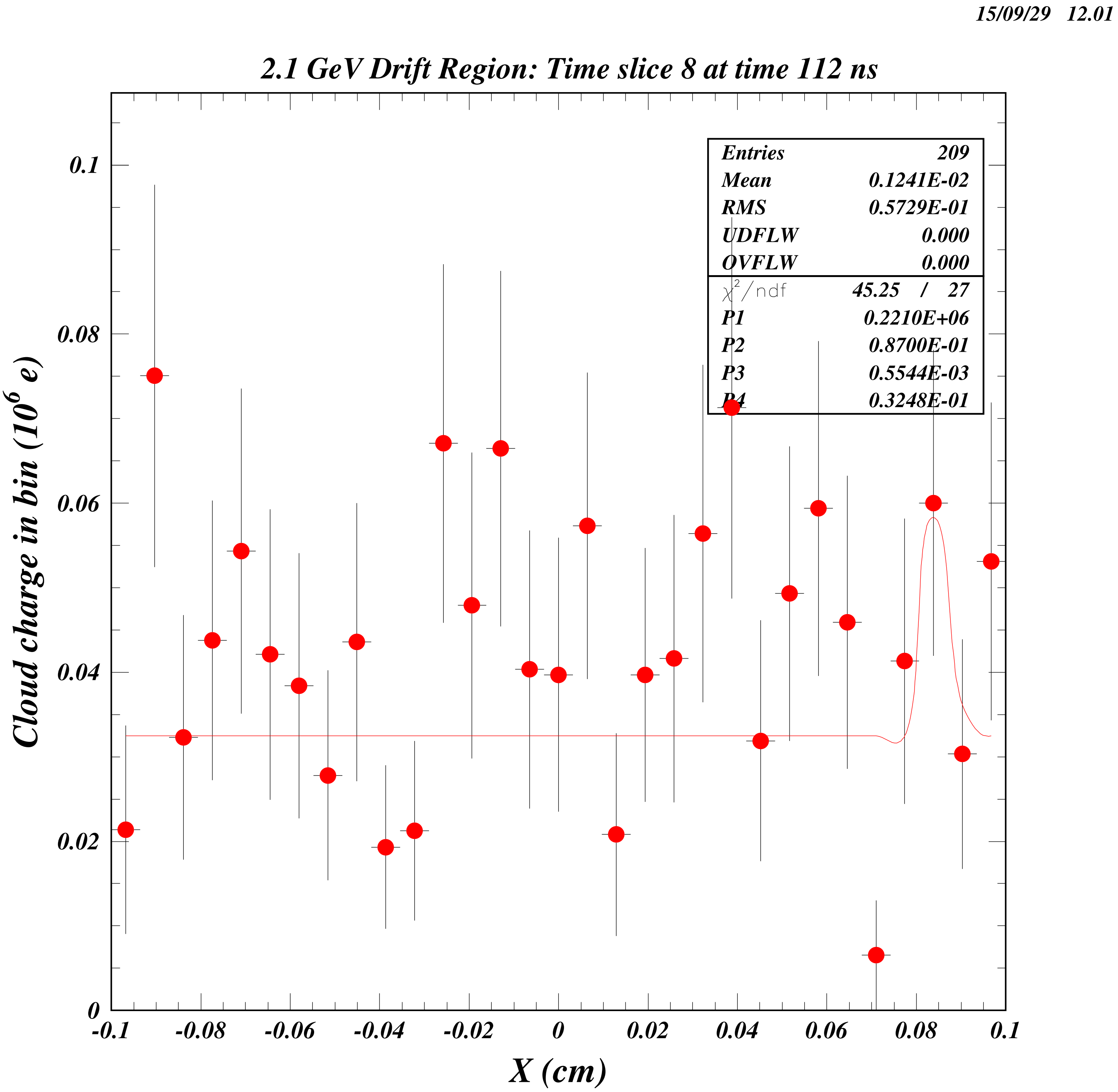
15/09/29 12.01
2.1 GeV Drift Region: Time slice 7 at time 98 ns
Entries 225
Mean -0.3353E-03
RMS 0.5551E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 30.98 / 27
P1 0.1683E-01
P2 0.1656E-01
P3 0.5342E-01
P4 0.3093E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



15/09/29 12.01
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
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01


2.1 GeV Drift Region: Time slice 8 at time 112 ns
Entries 209
Mean 0.1241E-02
RMS 0.5729E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.25 / 27
P1 0.2210E+06
P2 0.8700E-01
P3 0.5544E-03
P4 0.3248E-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 12.01
2.1 GeV Drift Region: Time slice 8 at time 112 ns
Entries 209
Mean 0.1241E-02
RMS 0.5729E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.25 / 27
P1 0.2210E+06
P2 0.8700E-01
P3 0.5544E-03
P4 0.3248E-01
Cloud charge in bin (10⁶ e)
X (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

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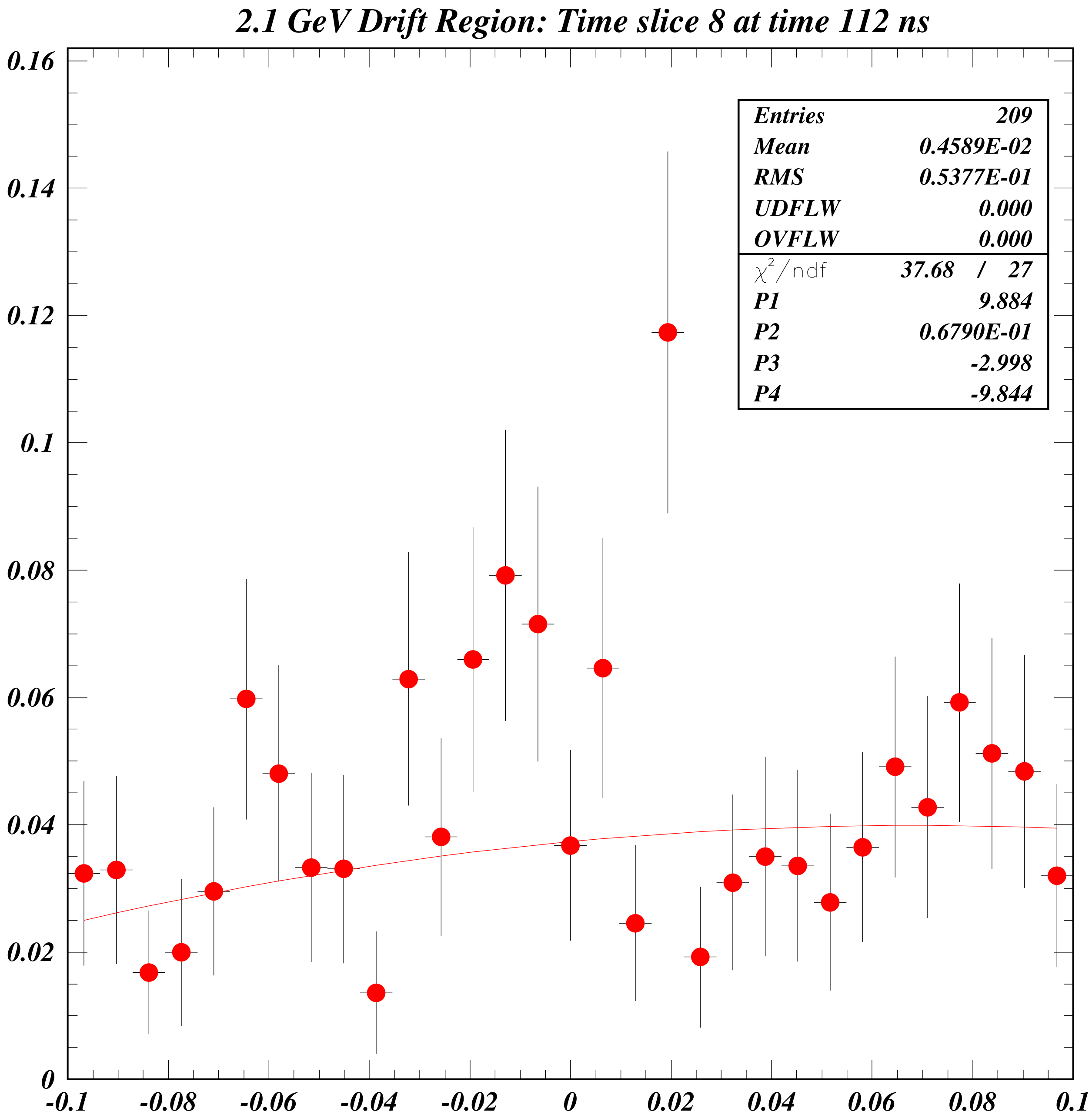
2.1 GeV Drift Region: Time slice 8 at time 112 ns
Entries 209
Mean 0.4589E-02
RMS 0.5377E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.68 / 27
P1 9.884
P2 0.6790E-01
P3 -2.998
P4 -9.844
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

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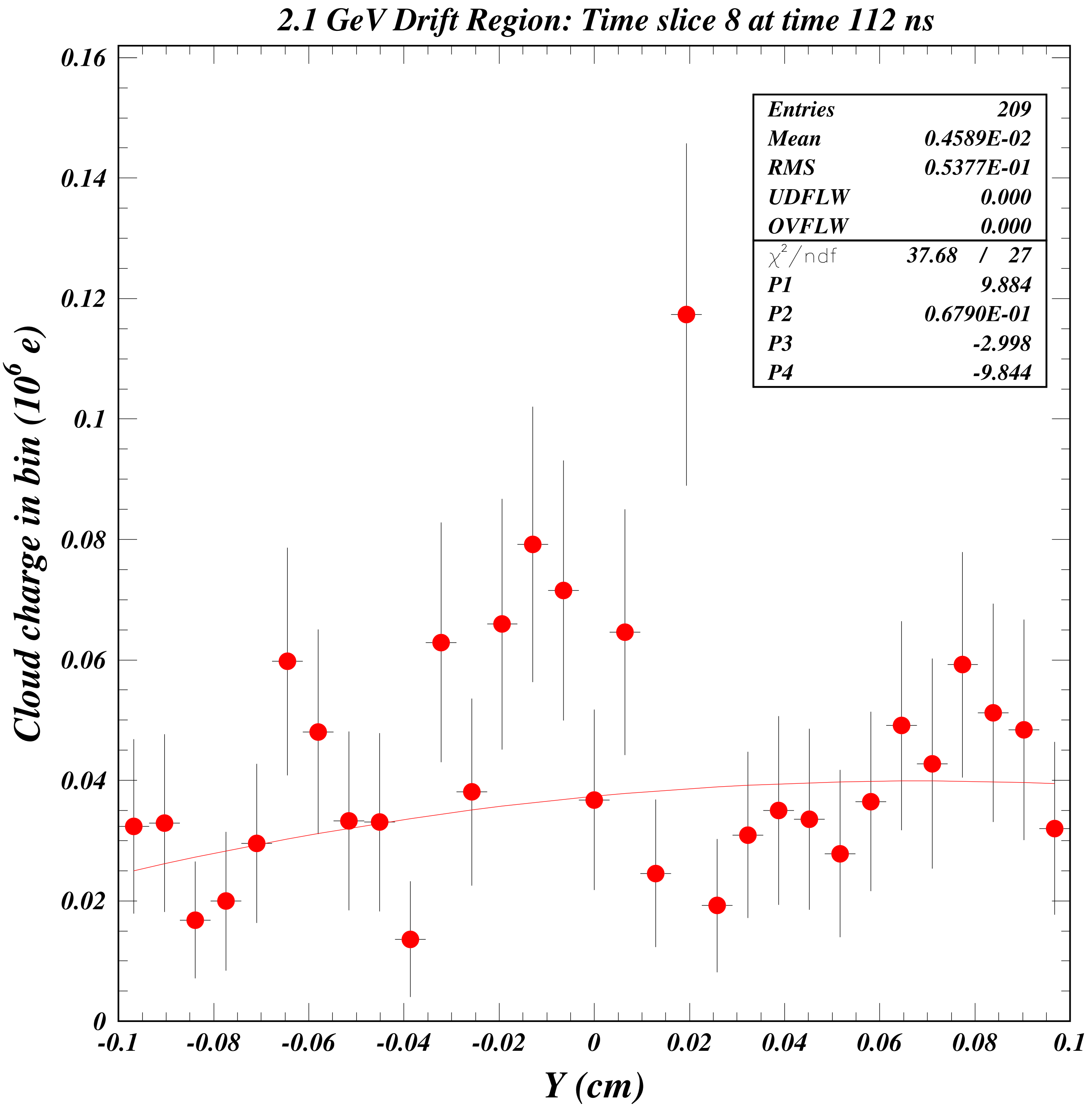
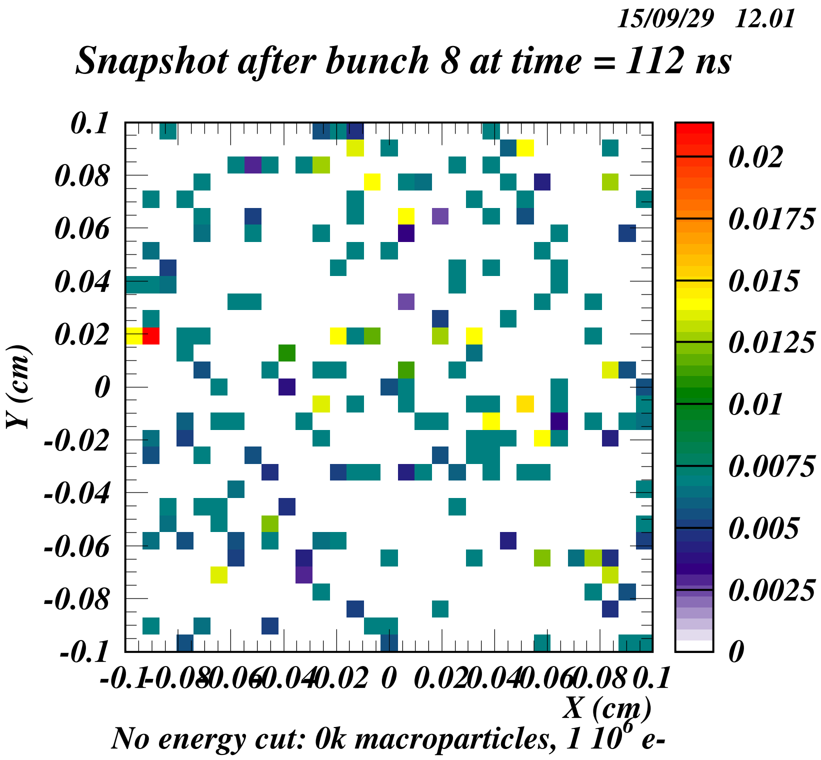
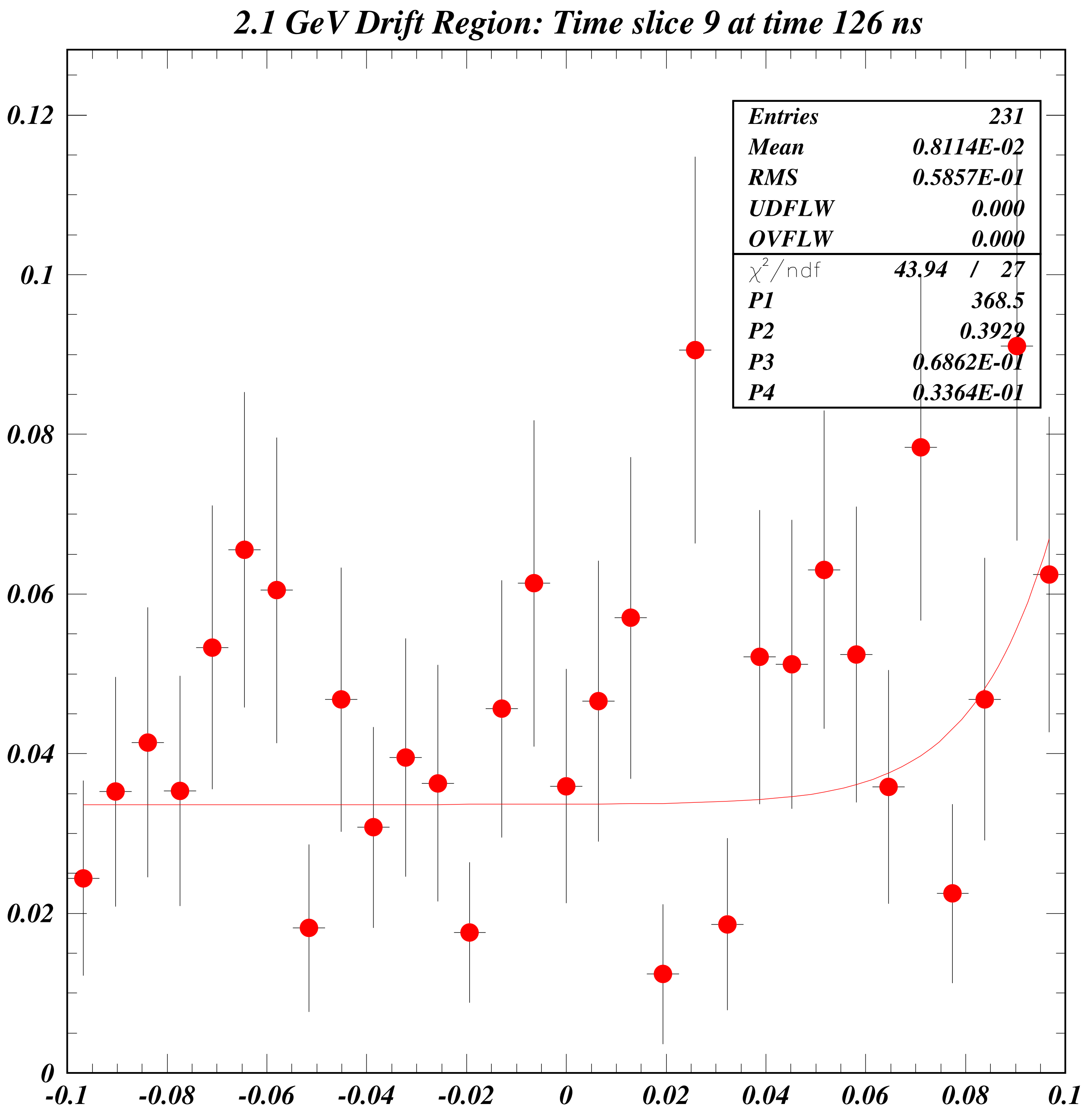

2.1 GeV Drift Region: Time slice 8 at time 112 ns
Entries 209
Mean 0.4589E-02
RMS 0.5377E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 37.68 / 27
P1 9.884
P2 0.6790E-01
P3 -2.998
P4 -9.844
Cloud charge in bin (10^6 e)
Y (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



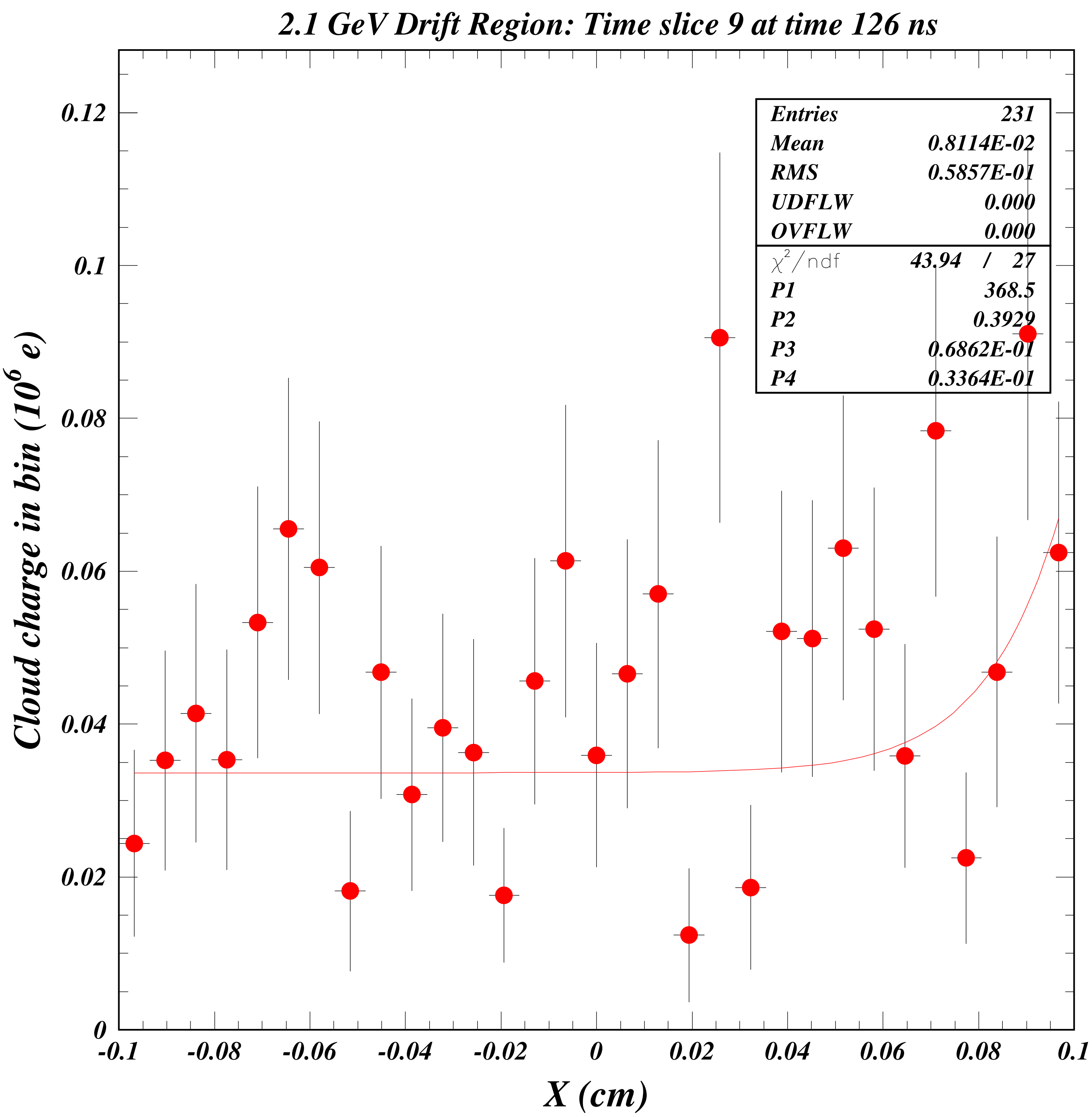
15/09/29 12.01
Snapshot after bunch 8 at time = 112 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01



2.1 GeV Drift Region: Time slice 9 at time 126 ns
Entries 231
Mean 0.8114E-02
RMS 0.5857E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 43.94 / 27
P1 368.5
P2 0.3929
P3 0.6862E-01
P4 0.3364E-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 12.01


2.1 GeV Drift Region: Time slice 9 at time 126 ns
Entries 231
Mean 0.8114E-02
RMS 0.5857E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 43.94 / 27
P1 368.5
P2 0.3929
P3 0.6862E-01
P4 0.3364E-01
Cloud charge in bin (10^6 e)
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
X (cm)

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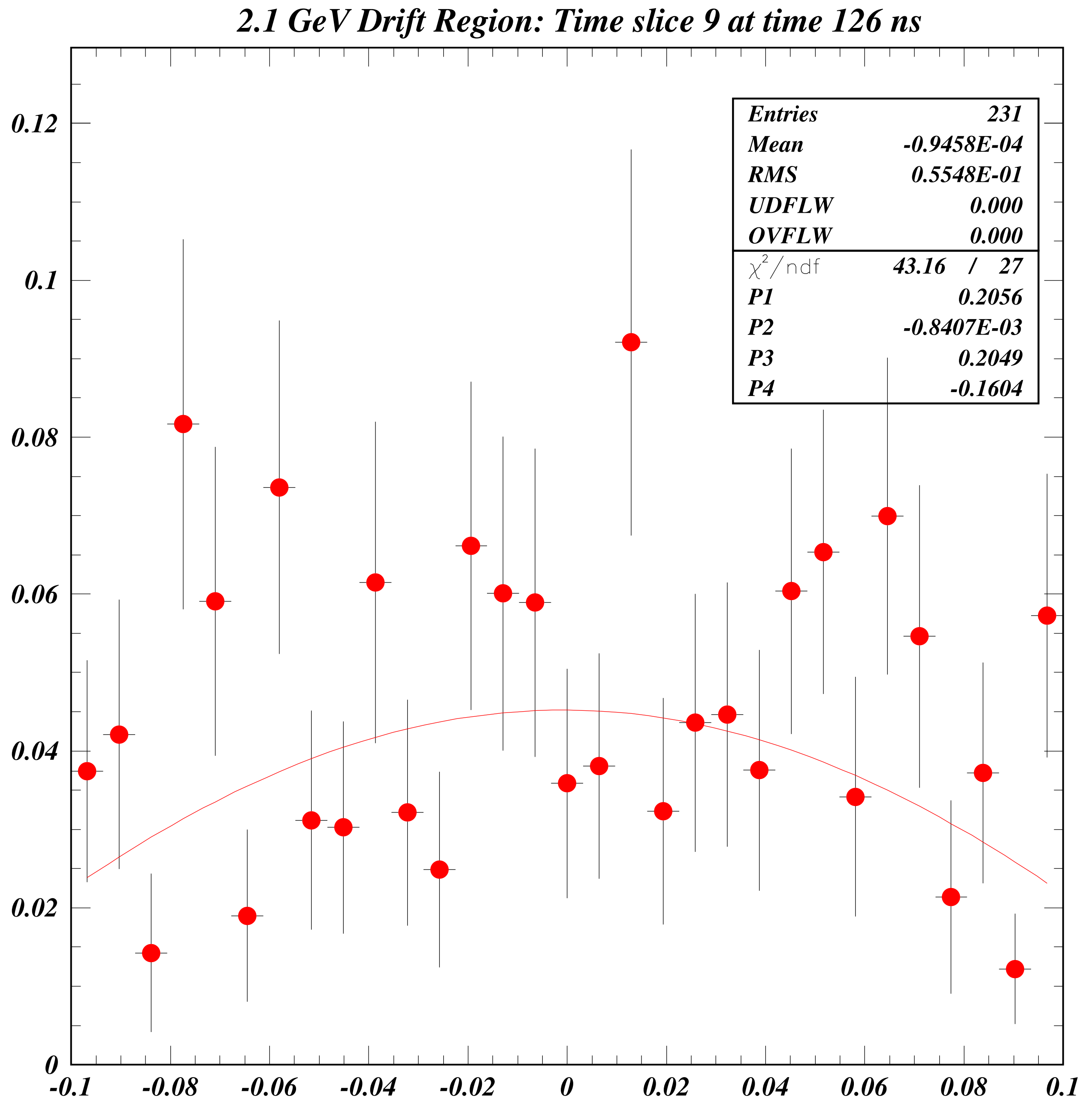
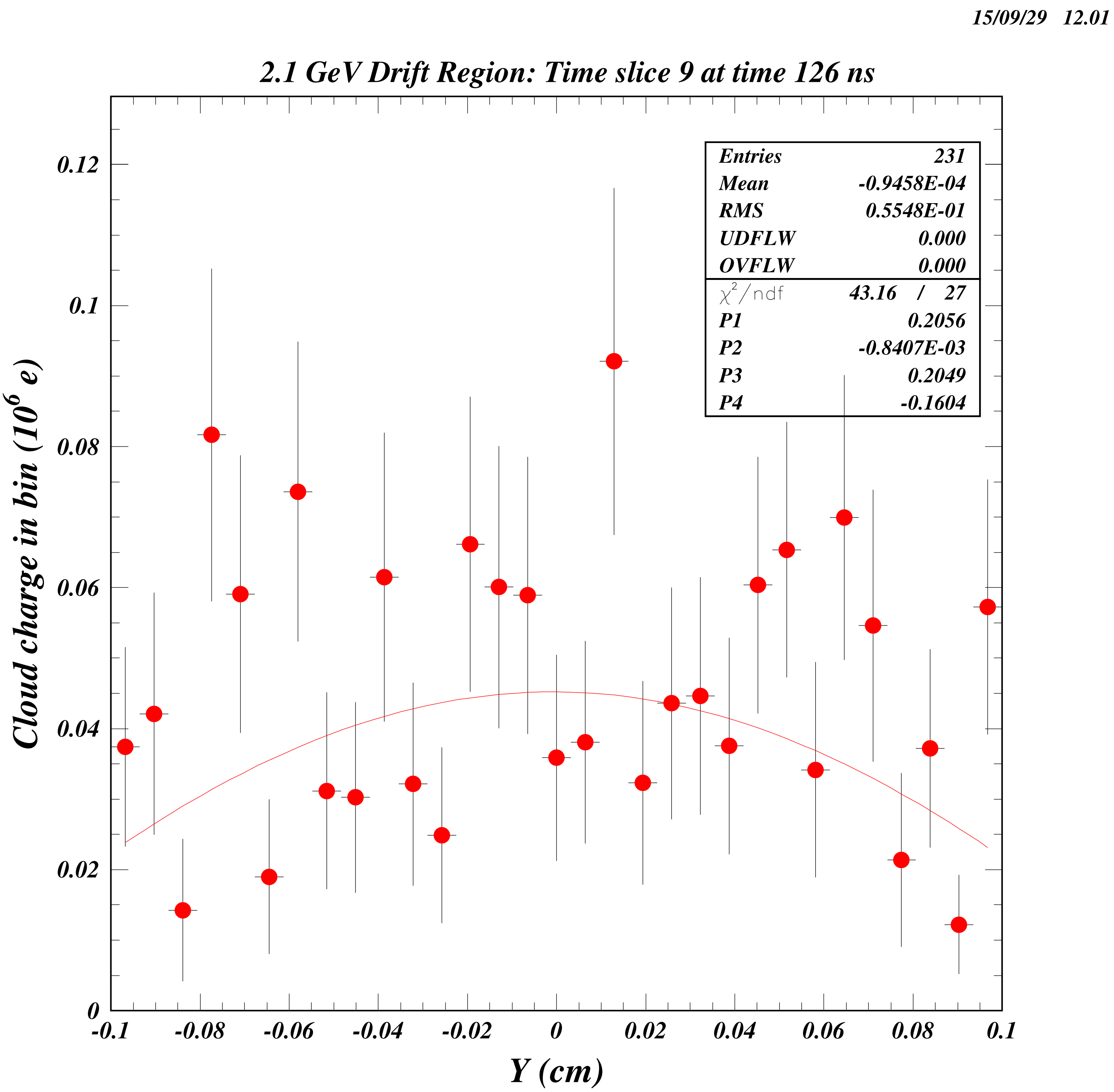
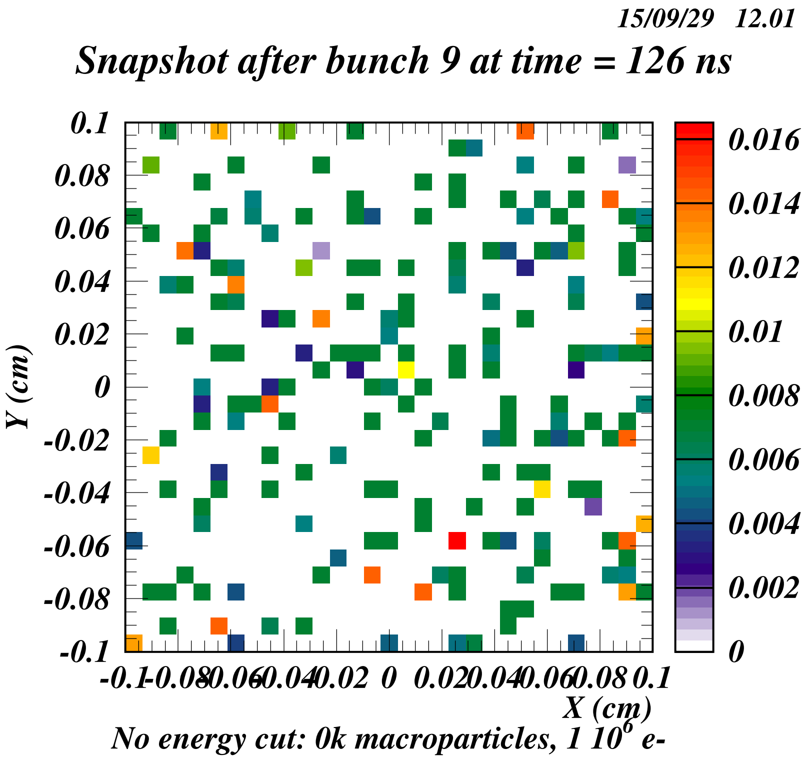
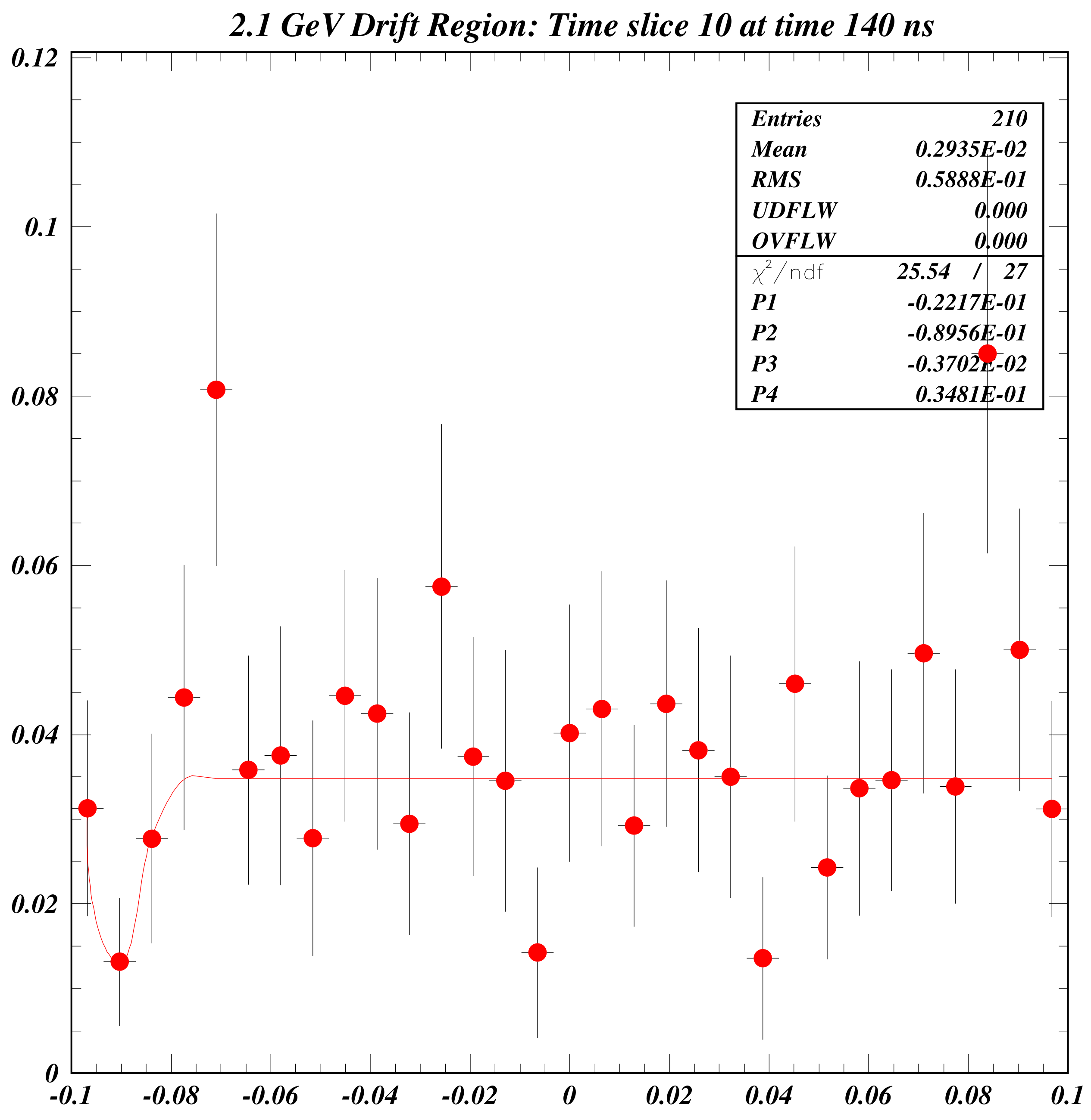

2.1 GeV Drift Region: Time slice 9 at time 126 ns
Entries 231
Mean -0.9458E-04
RMS 0.5548E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 43.16 / 27
P1 0.2056
P2 -0.8407E-03
P3 0.2049
P4 -0.1604
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

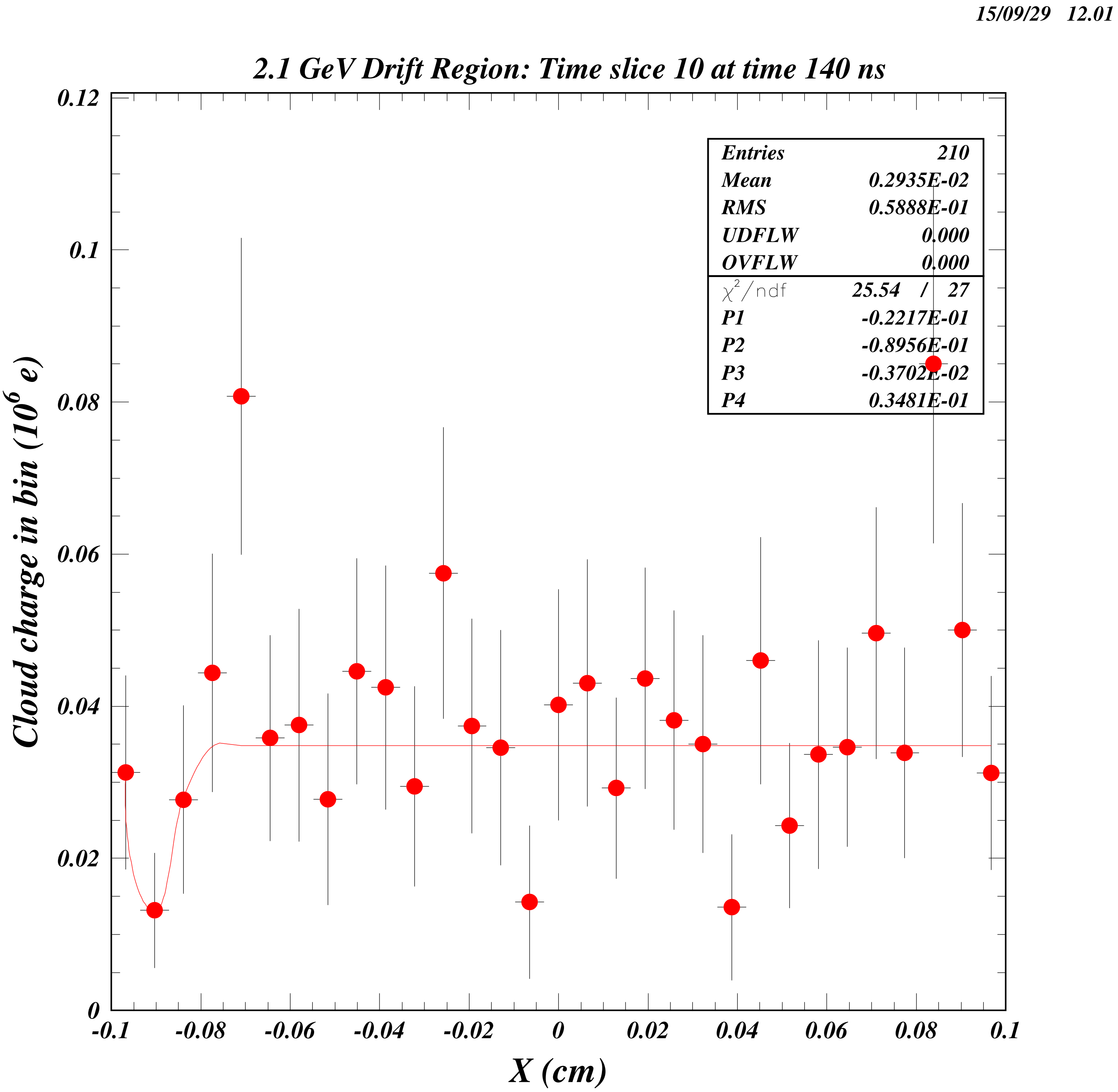

15/09/29 12.01
2.1 GeV Drift Region: Time slice 9 at time 126 ns
Entries 231
Mean -0.9458E-04
RMS 0.5548E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 43.16 / 27
P1 0.2056
P2 -0.8407E-03
P3 0.2049
P4 -0.1604
Cloud charge in bin (10⁶ e)
Y (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
Snapshot after bunch 9 at time = 126 ns
Y (cm)
X (cm)
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01

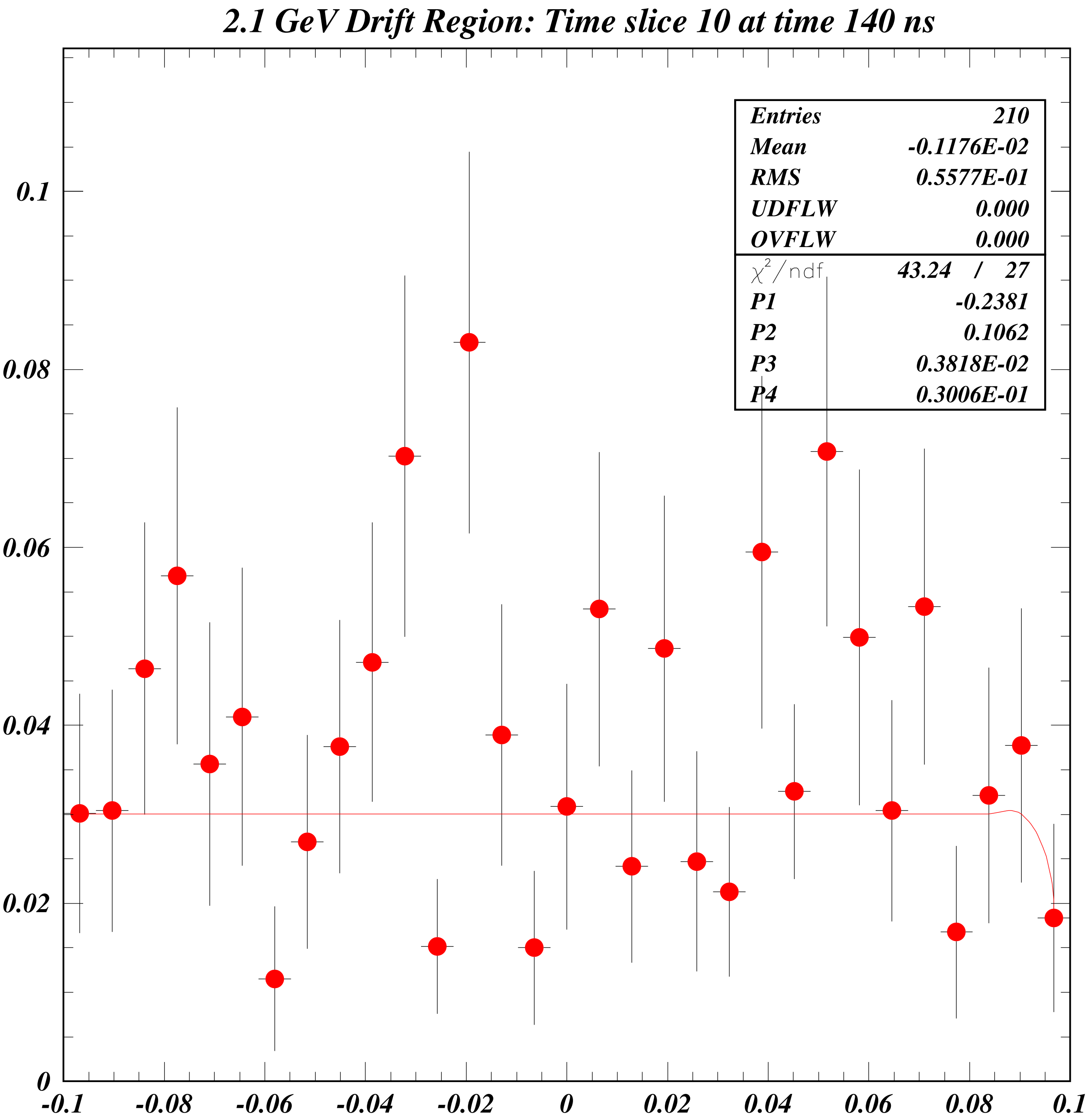


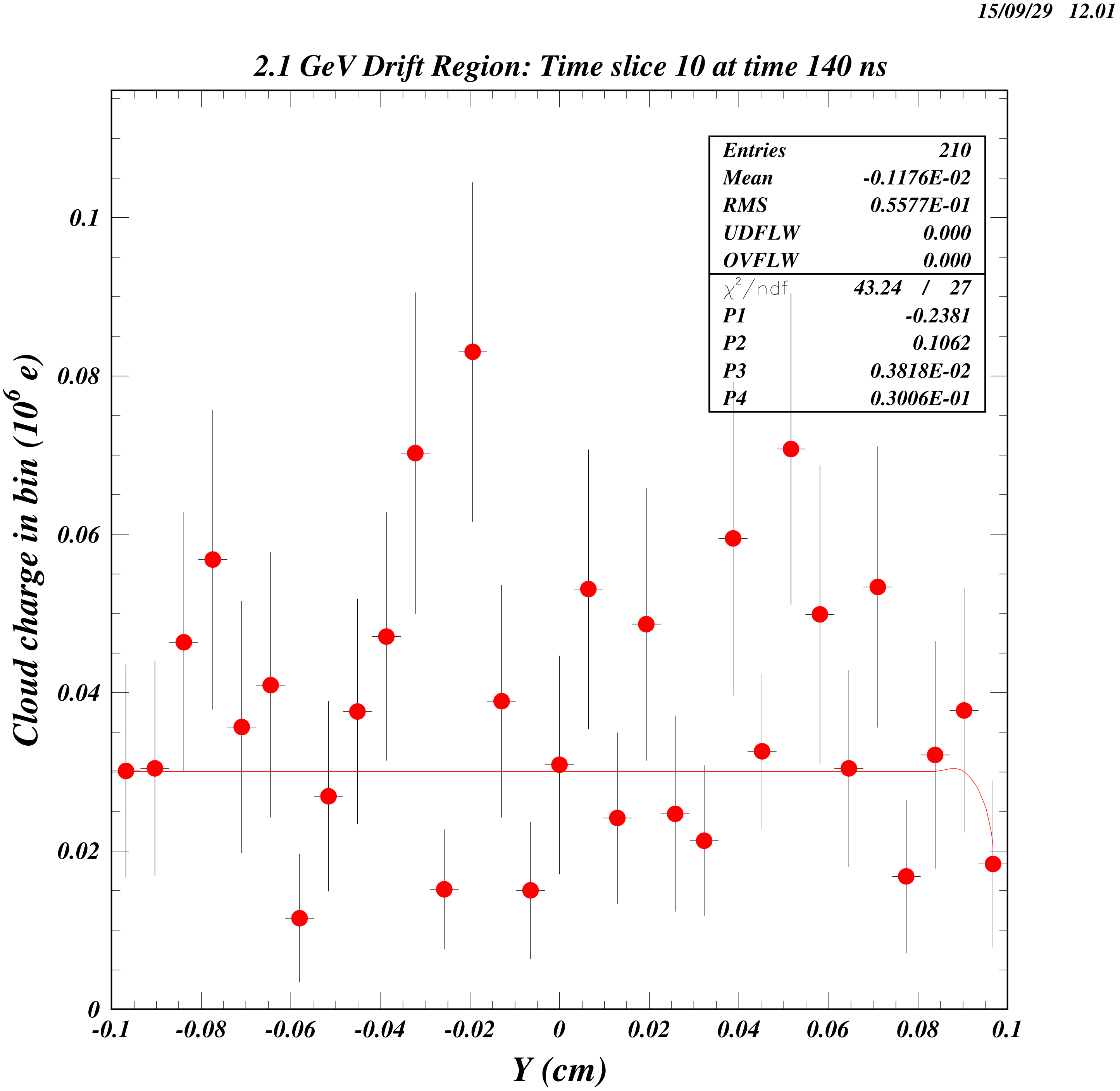
2.1 GeV Drift Region: Time slice 10 at time 140 ns
Entries 210
Mean 0.2935E-02
RMS 0.5888E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 25.54 / 27
P1 -0.2217E-01
P2 -0.8956E-01
P3 -0.3702E-02
P4 0.3481E-01
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

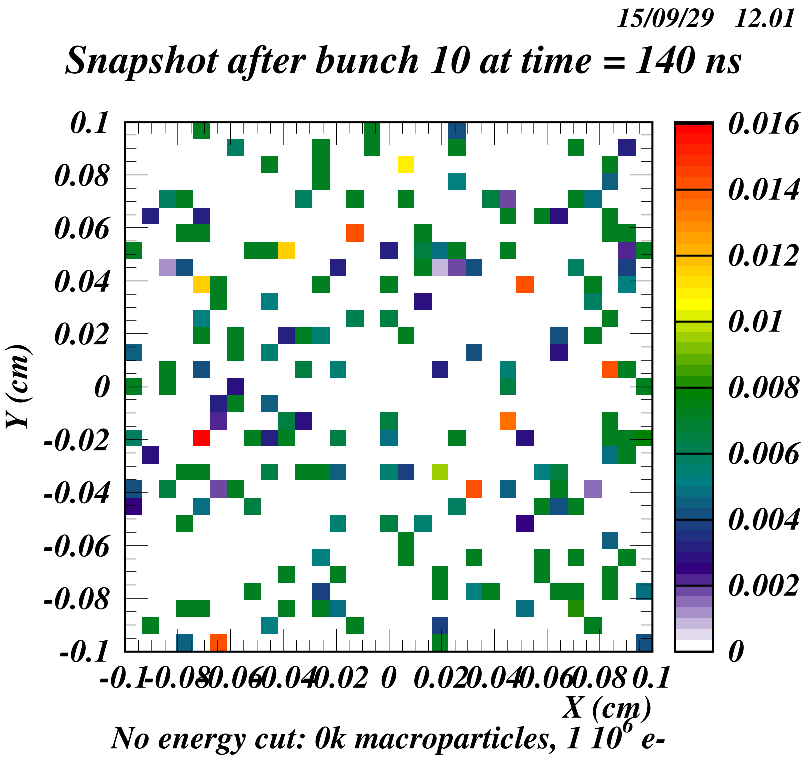


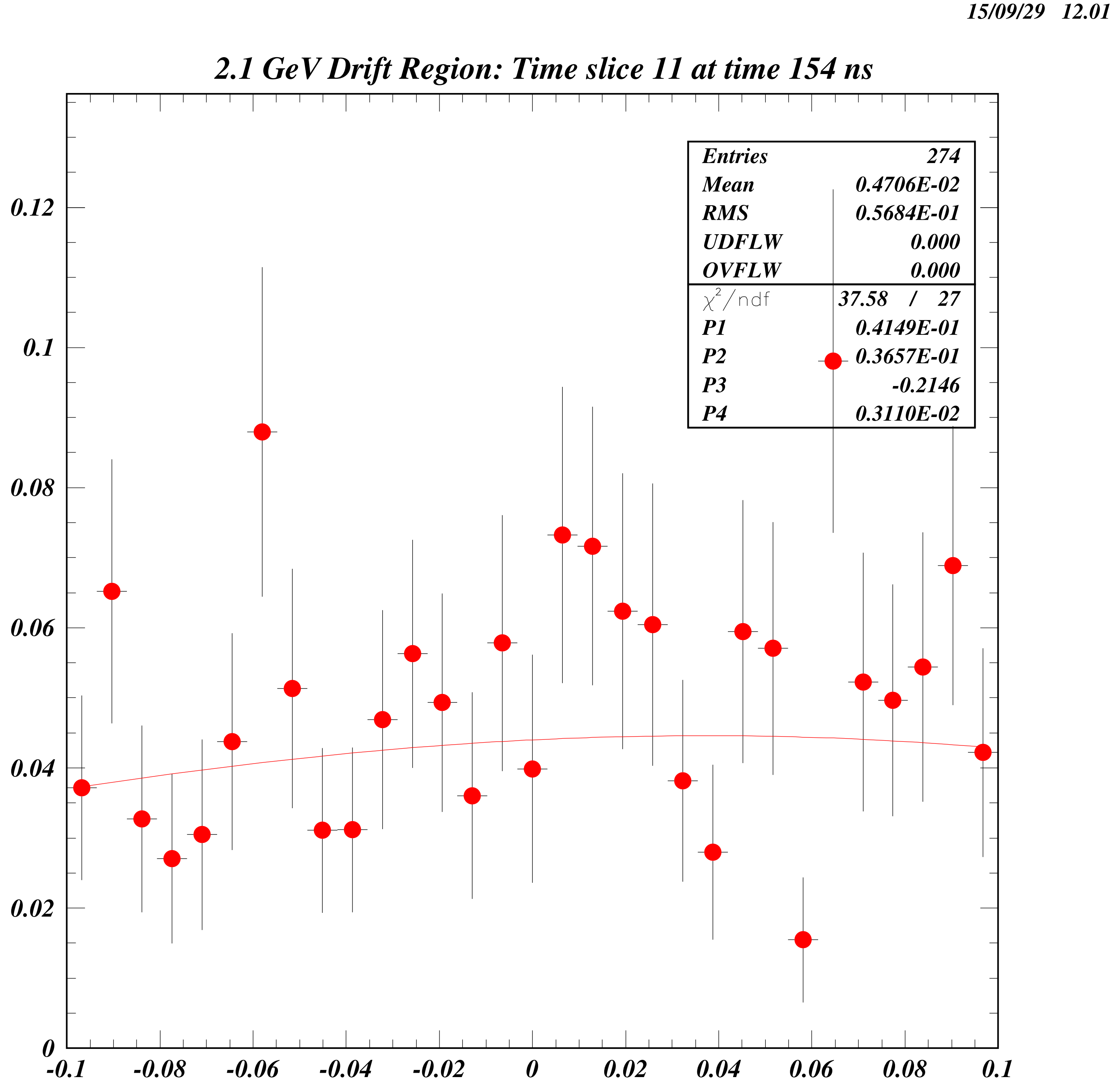
15/09/29 12.01
2.1 GeV Drift Region: Time slice 10 at time 140 ns
Entries 210
Mean 0.2935E-02
RMS 0.5888E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 25.54 / 27
P1 -0.2217E-01
P2 -0.8956E-01
P3 -0.3702E-02
P4 0.3481E-01
Cloud charge in bin (10^6 e)
X (cm)
0 0.02 0.04 0.06 0.08 0.1 0.12
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1

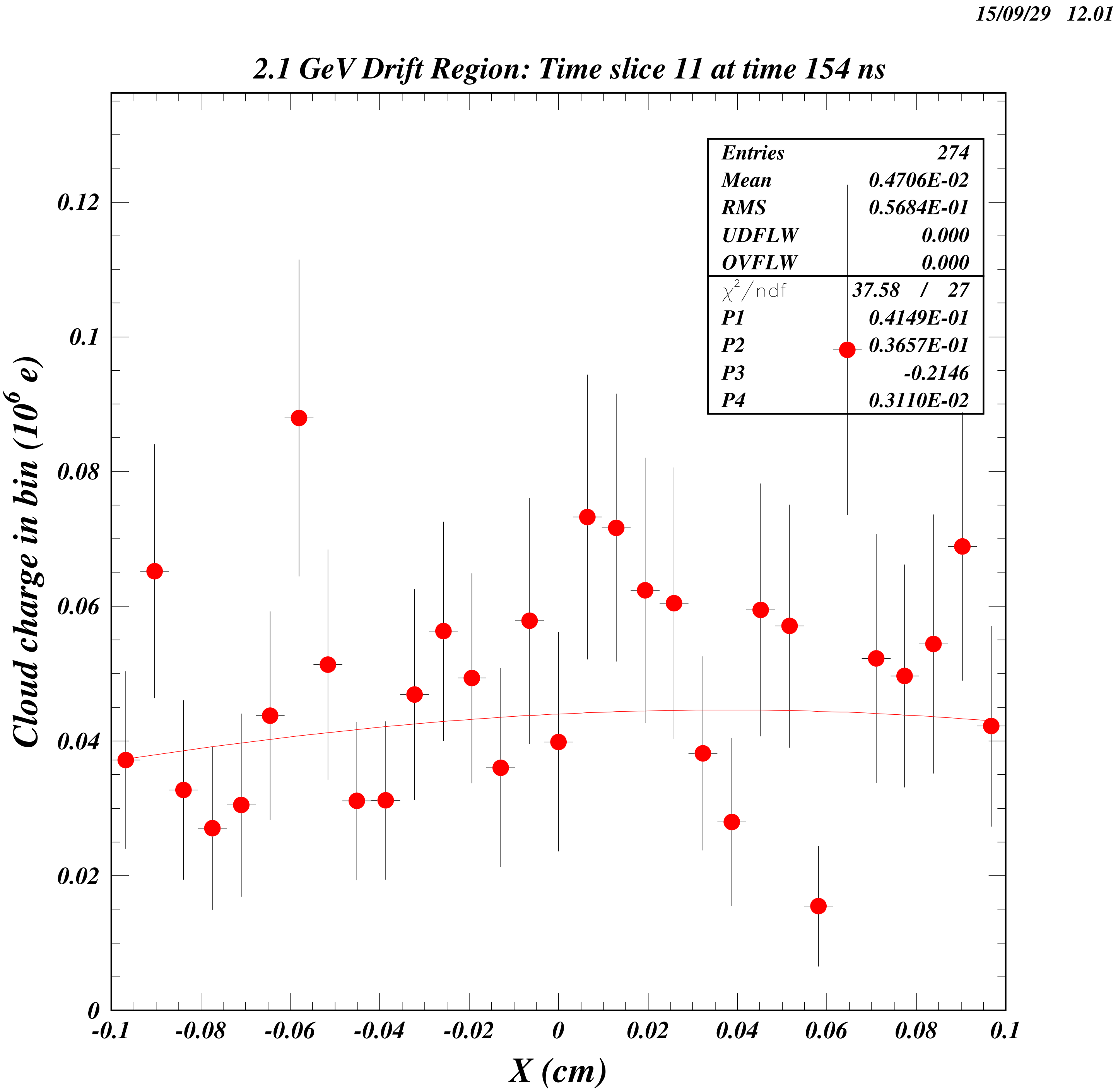
15/09/29 12.01


2.1 GeV Drift Region: Time slice 10 at time 140 ns
Entries 210
Mean -0.1176E-02
RMS 0.5577E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 43.24 / 27
P1 -0.2381
P2 0.1062
P3 0.3818E-02
P4 0.3006E-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 12.01
2.1 GeV Drift Region: Time slice 10 at time 140 ns
Entries 210
Mean -0.1176E-02
RMS 0.5577E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 43.24 / 27
P1 -0.2381
P2 0.1062
P3 0.3818E-02
P4 0.3006E-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
0.02
0.04
0.06
0.08

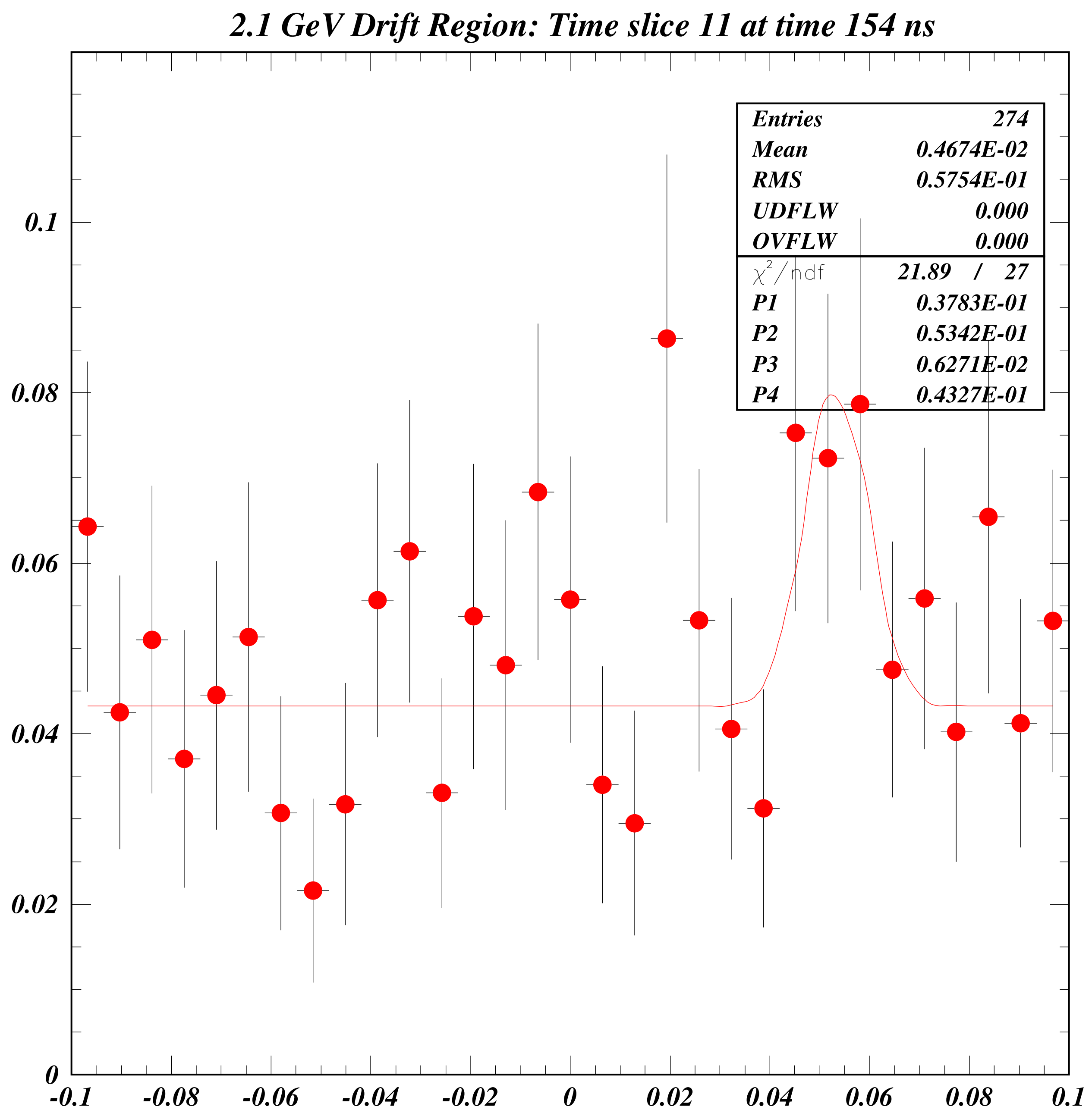

15/09/29 12.01
Snapshot after bunch 10 at time = 140 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 1 10^6 e-


15/09/29 12.01
2.1 GeV Drift Region: Time slice 11 at time 154 ns
Entries 274
Mean 0.4706E-02
RMS 0.5684E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.58 / 27
P1 0.4149E-01
P2 0.3657E-01
P3 -0.2146
P4 0.3110E-02
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



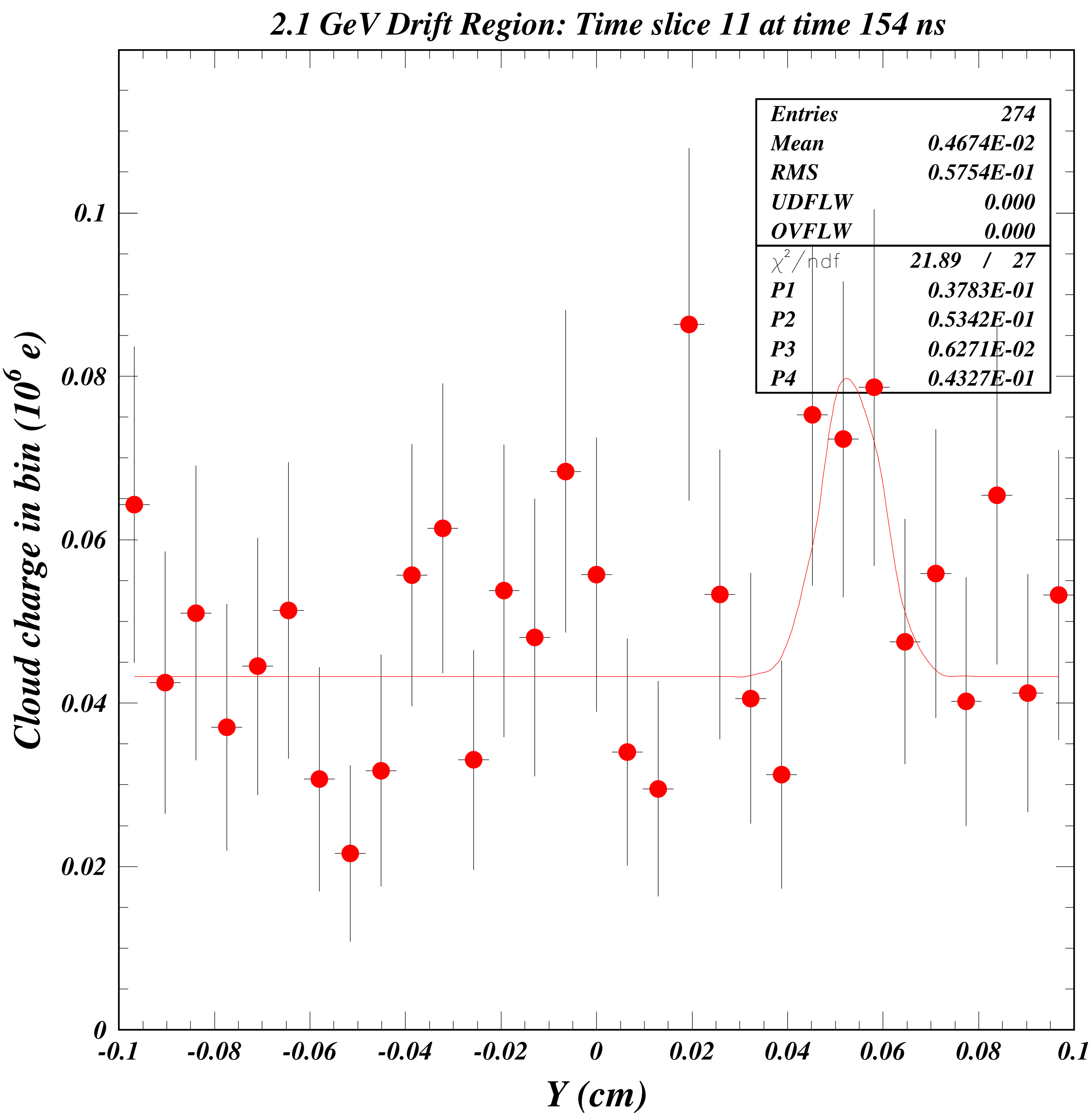
15/09/29 12.01
2.1 GeV Drift Region: Time slice 11 at time 154 ns
Entries 274
Mean 0.4706E-02
RMS 0.5684E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.58 / 27
P1 0.4149E-01
P2 0.3657E-01
P3 -0.2146
P4 0.3110E-02
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29   12.01

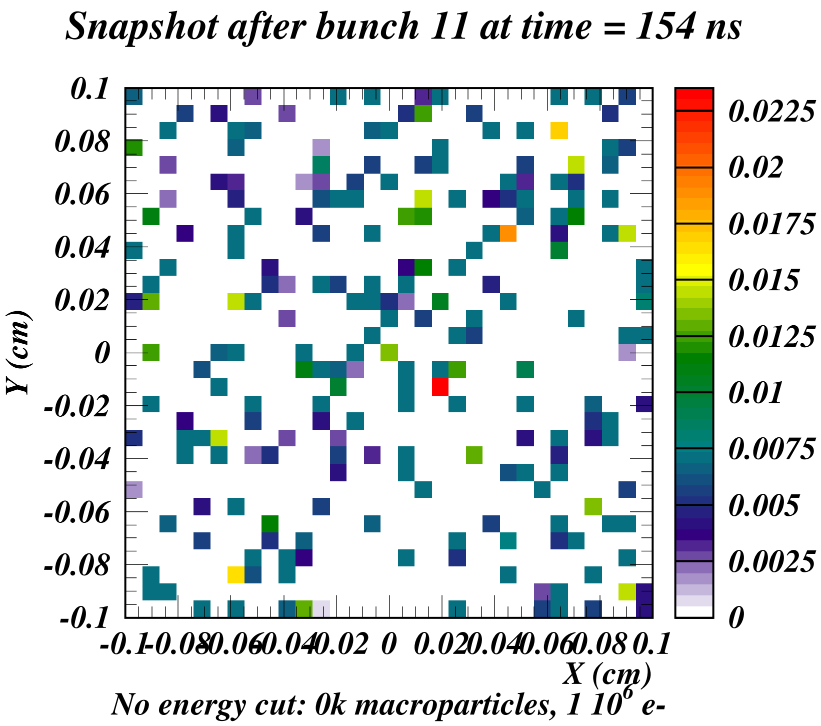


2.1 GeV Drift Region: Time slice 11 at time 154 ns
Entries 274
Mean 0.4674E-02
RMS 0.5754E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 21.89 / 27
P1 0.3783E-01
P2 0.5342E-01
P3 0.6271E-02
P4 0.4327E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

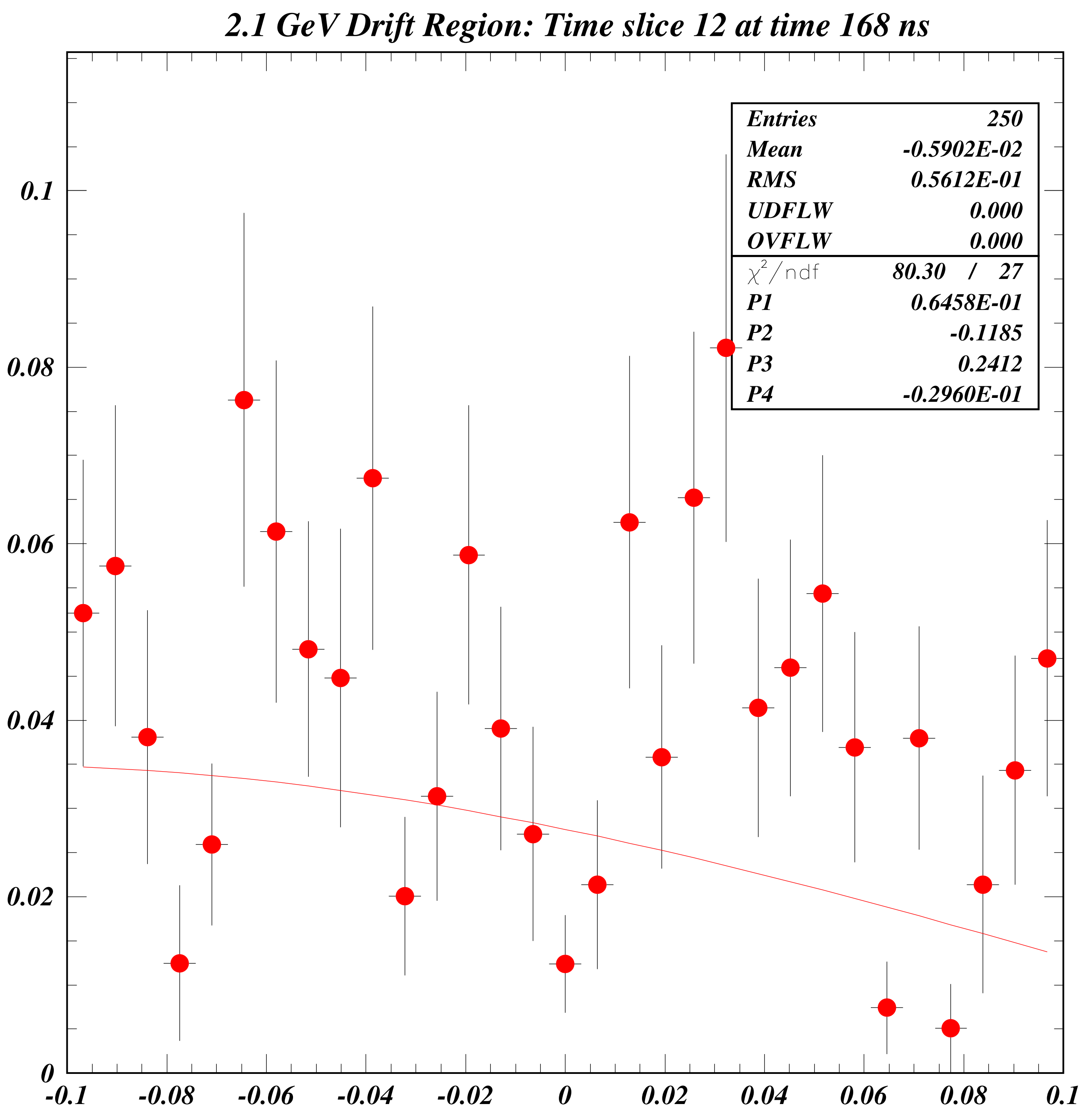
15/09/29 12.01

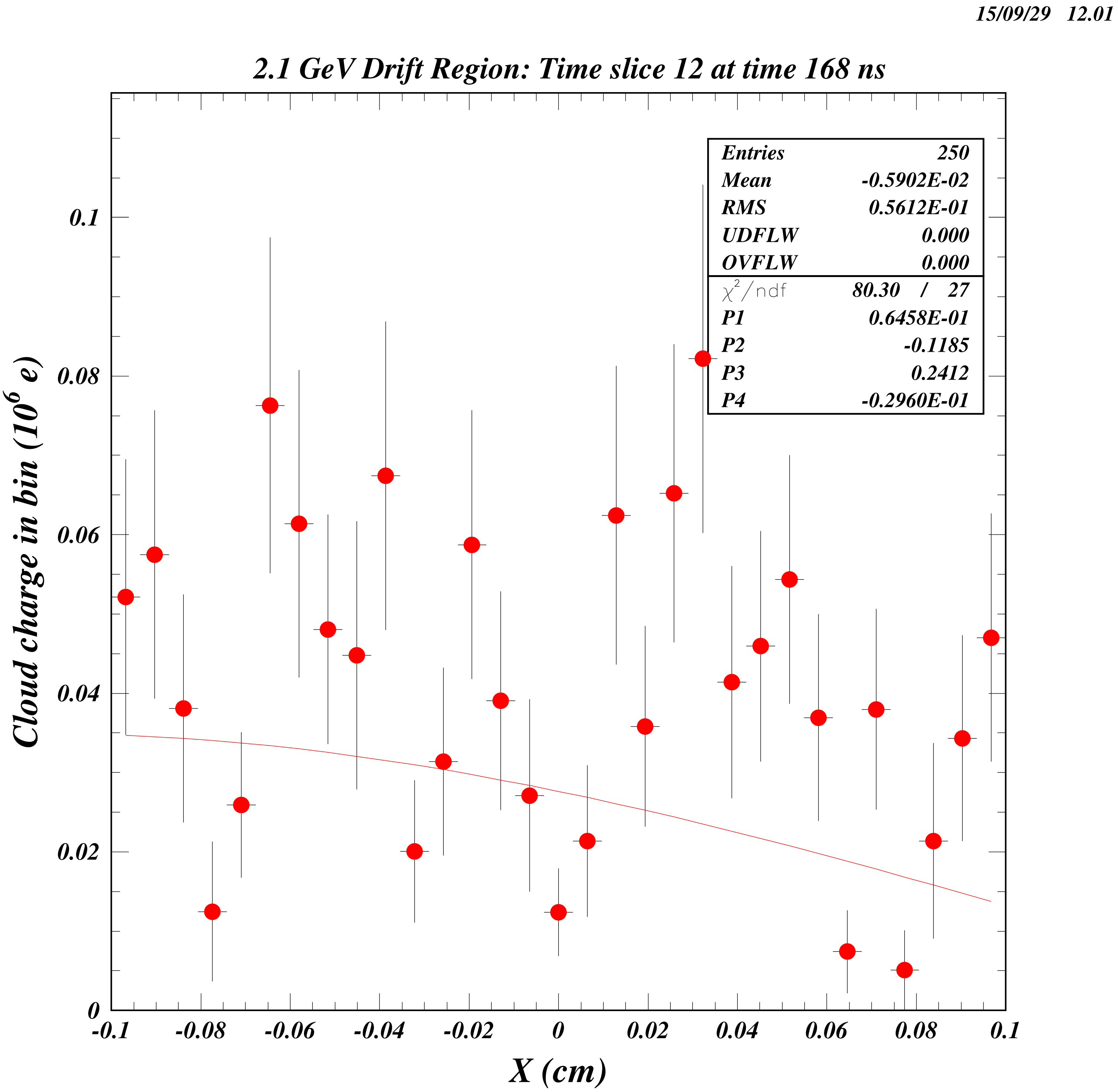

2.1 GeV Drift Region: Time slice 11 at time 154 ns
Entries 274
Mean 0.4674E-02
RMS 0.5754E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 21.89 / 27
P1 0.3783E-01
P2 0.5342E-01
P3 0.6271E-02
P4 0.4327E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0
0.02
0.04
0.06
0.08
0.1
-0.1
-0.08
-0.06
-0.04
-0.02
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01

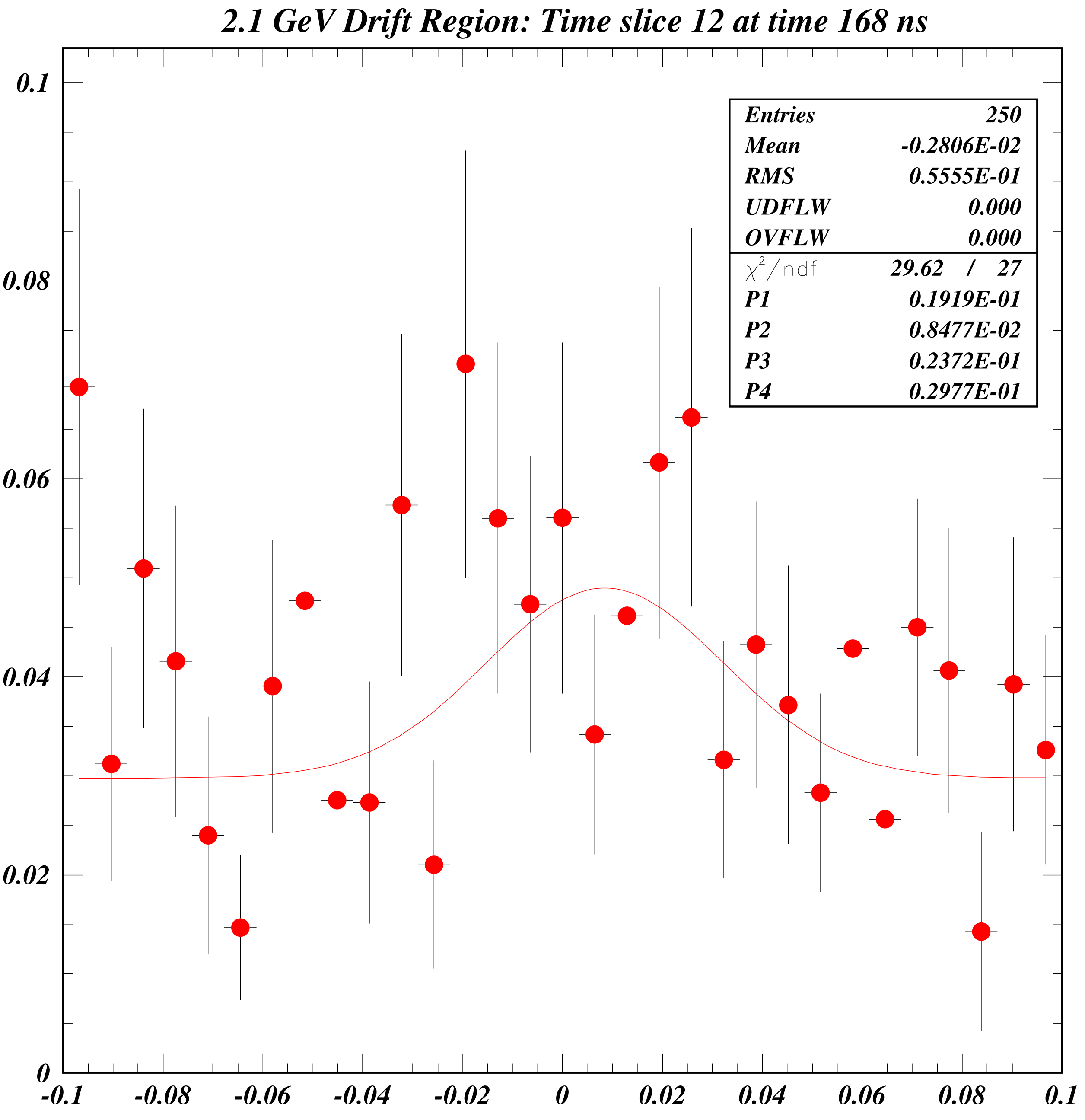

Snapshot after bunch 11 at time = 154 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
No energy cut: 0k macroparticles, 1 10^6 e-

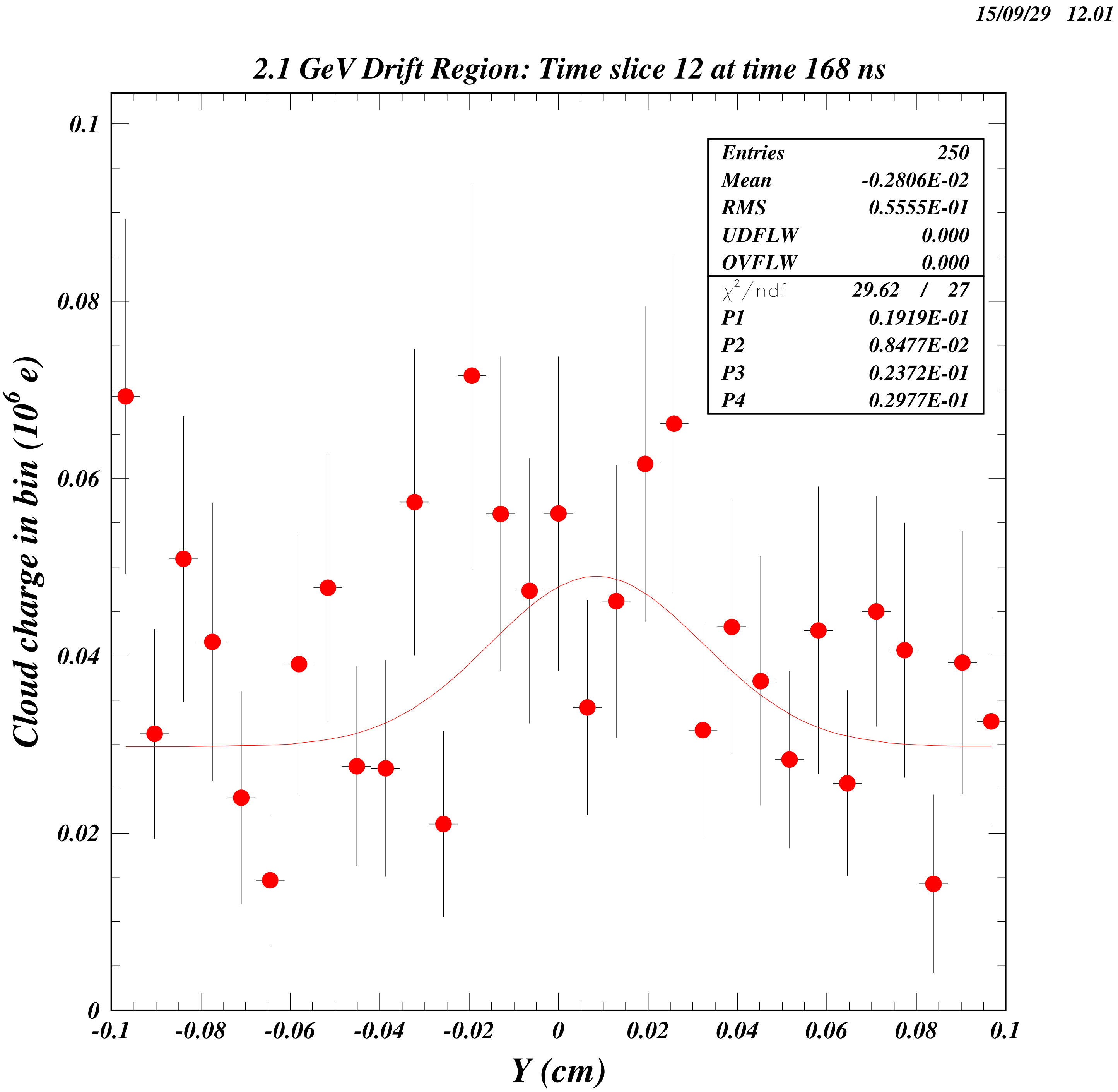
15/09/29 12.01


2.1 GeV Drift Region: Time slice 12 at time 168 ns
Entries 250
Mean -0.5902E-02
RMS 0.5612E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 80.30 / 27
P1 0.6458E-01
P2 -0.1185
P3 0.2412
P4 -0.2960E-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

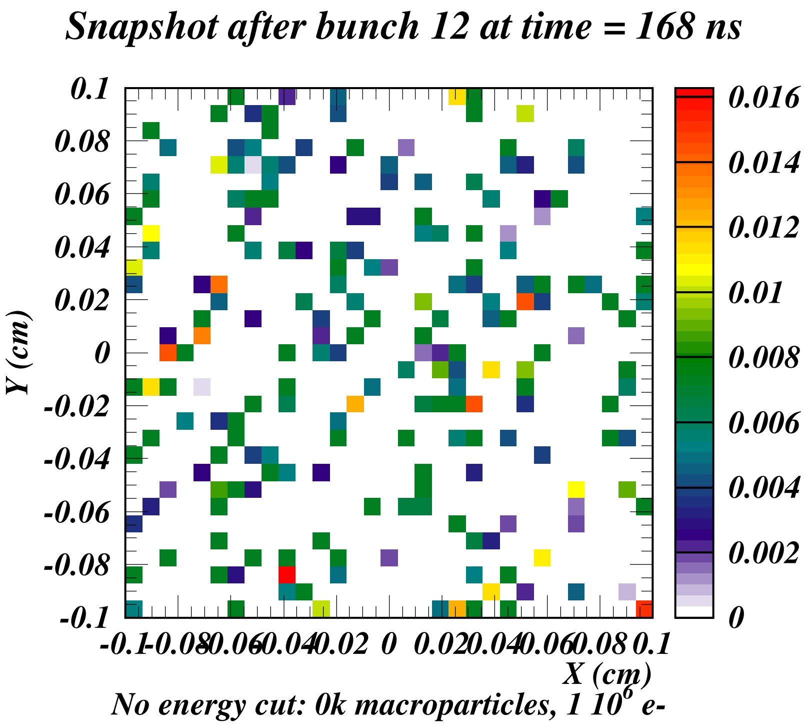

15/09/29 12.01
2.1 GeV Drift Region: Time slice 12 at time 168 ns
Entries 250
Mean -0.5902E-02
RMS 0.5612E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 80.30 / 27
P1 0.6458E-01
P2 -0.1185
P3 0.2412
P4 -0.2960E-01
Cloud charge in bin (10⁶ e)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01

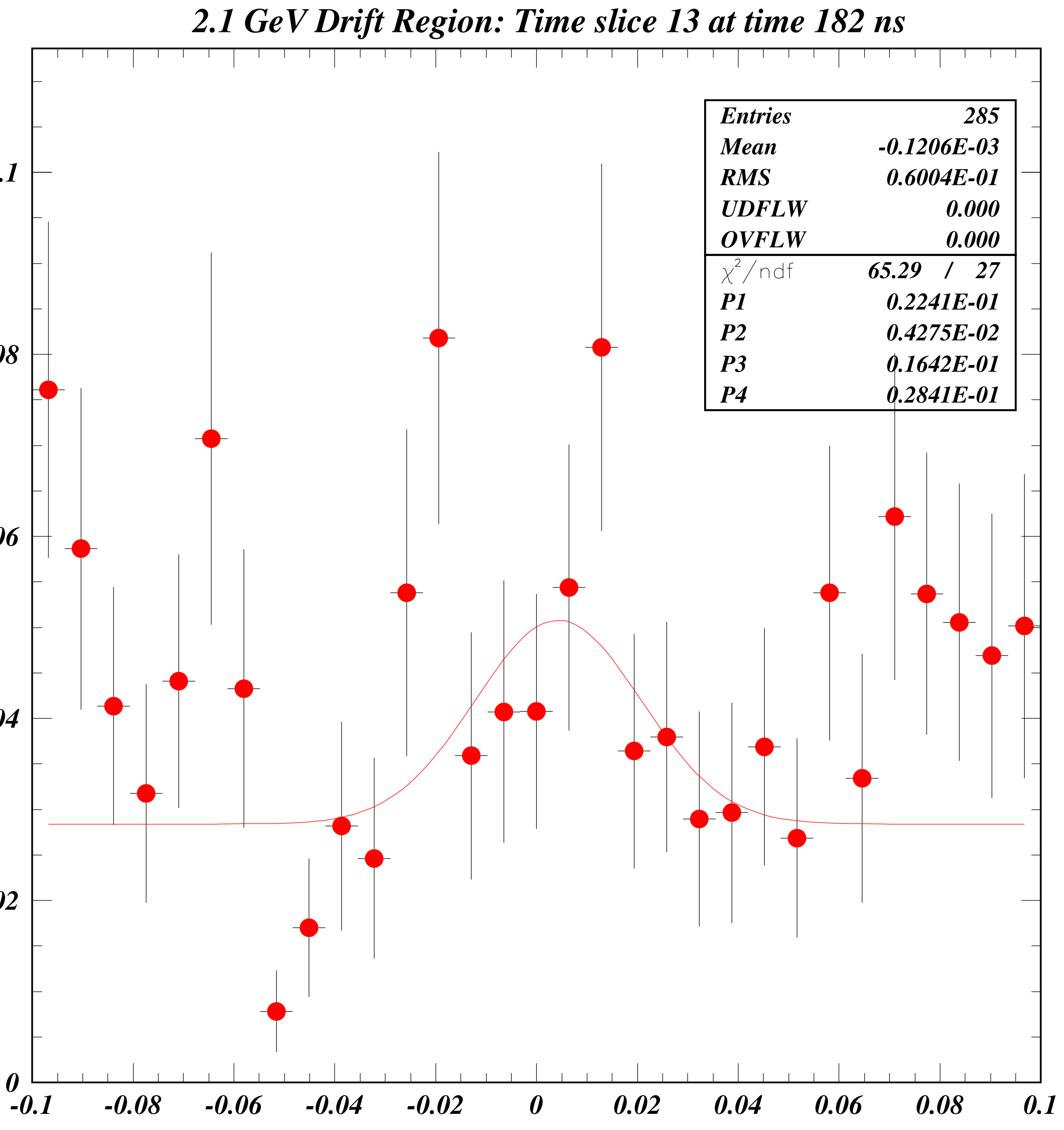

2.1 GeV Drift Region: Time slice 12 at time 168 ns
Entries 250
Mean -0.2806E-02
RMS 0.5555E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 29.62 / 27
P1 0.1919E-01
P2 0.8477E-02
P3 0.2372E-01
P4 0.2977E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 12 at time 168 ns
Entries 250
Mean -0.2806E-02
RMS 0.5555E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 29.62 / 27
P1 0.1919E-01
P2 0.8477E-02
P3 0.2372E-01
P4 0.2977E-01
Cloud charge in bin (10⁶ e)
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)

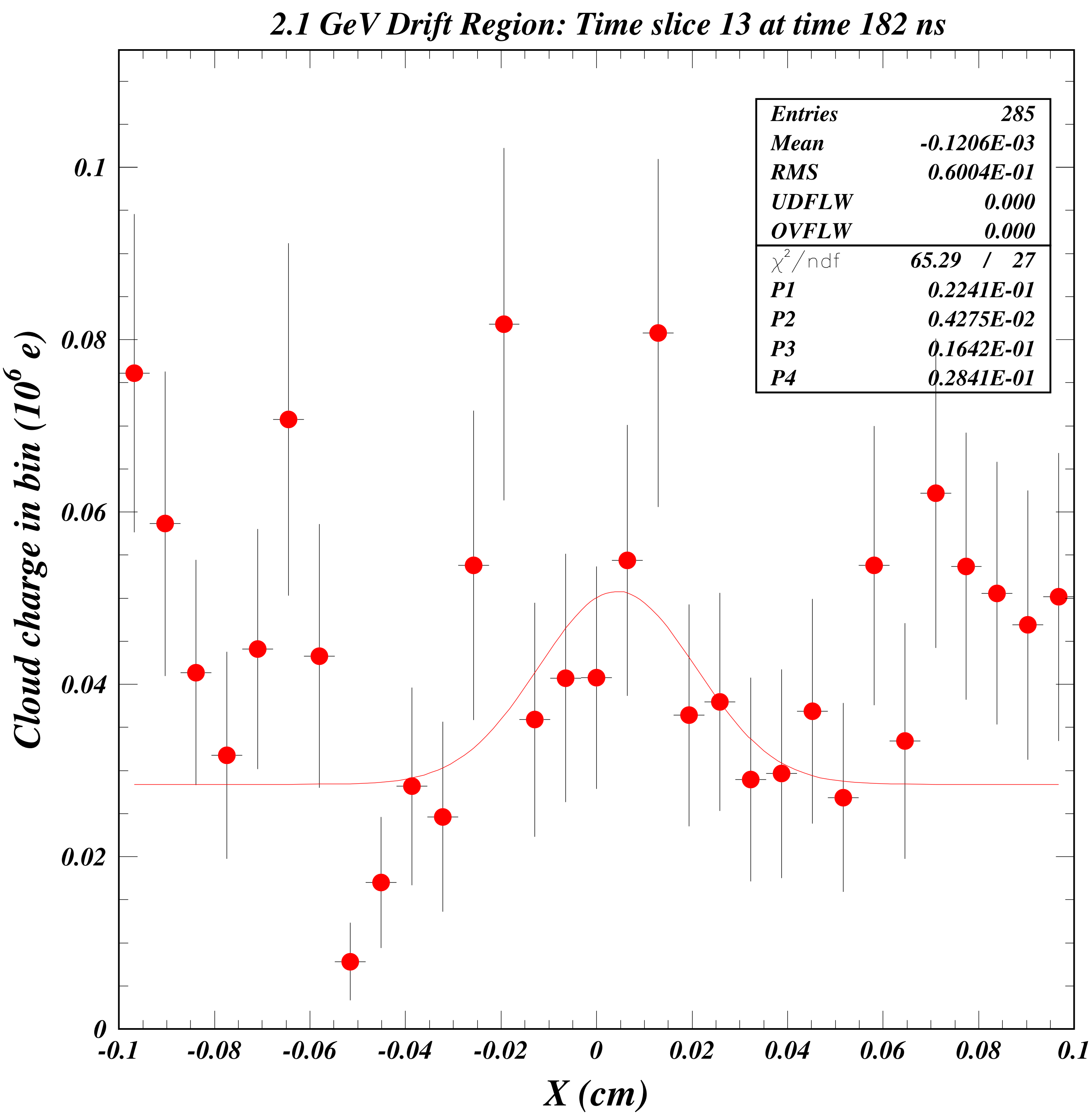
15/09/29 12.01


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
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
No energy cut: 0k macroparticles, 1 10^6 e-

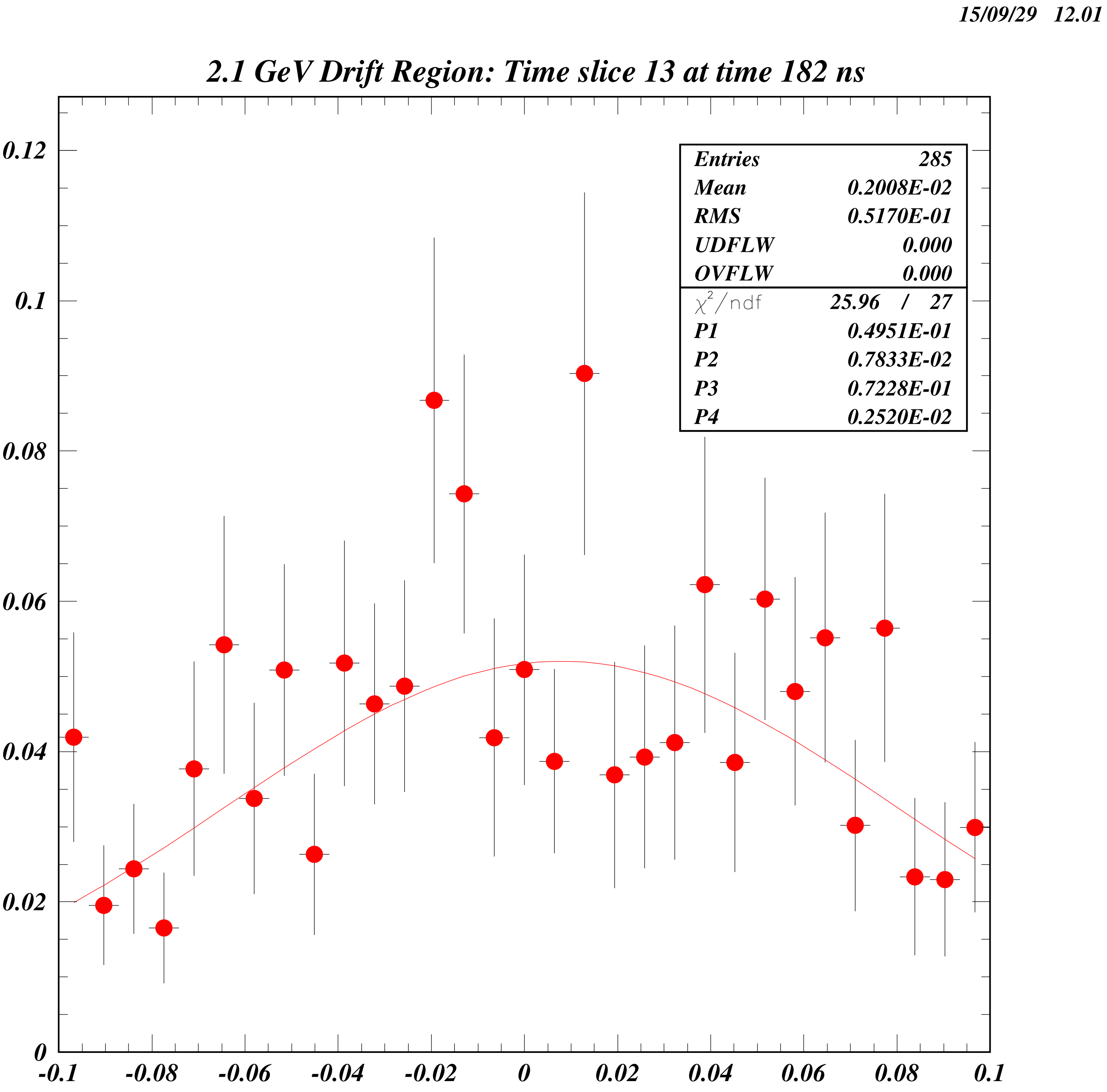
15/09/29 12.01

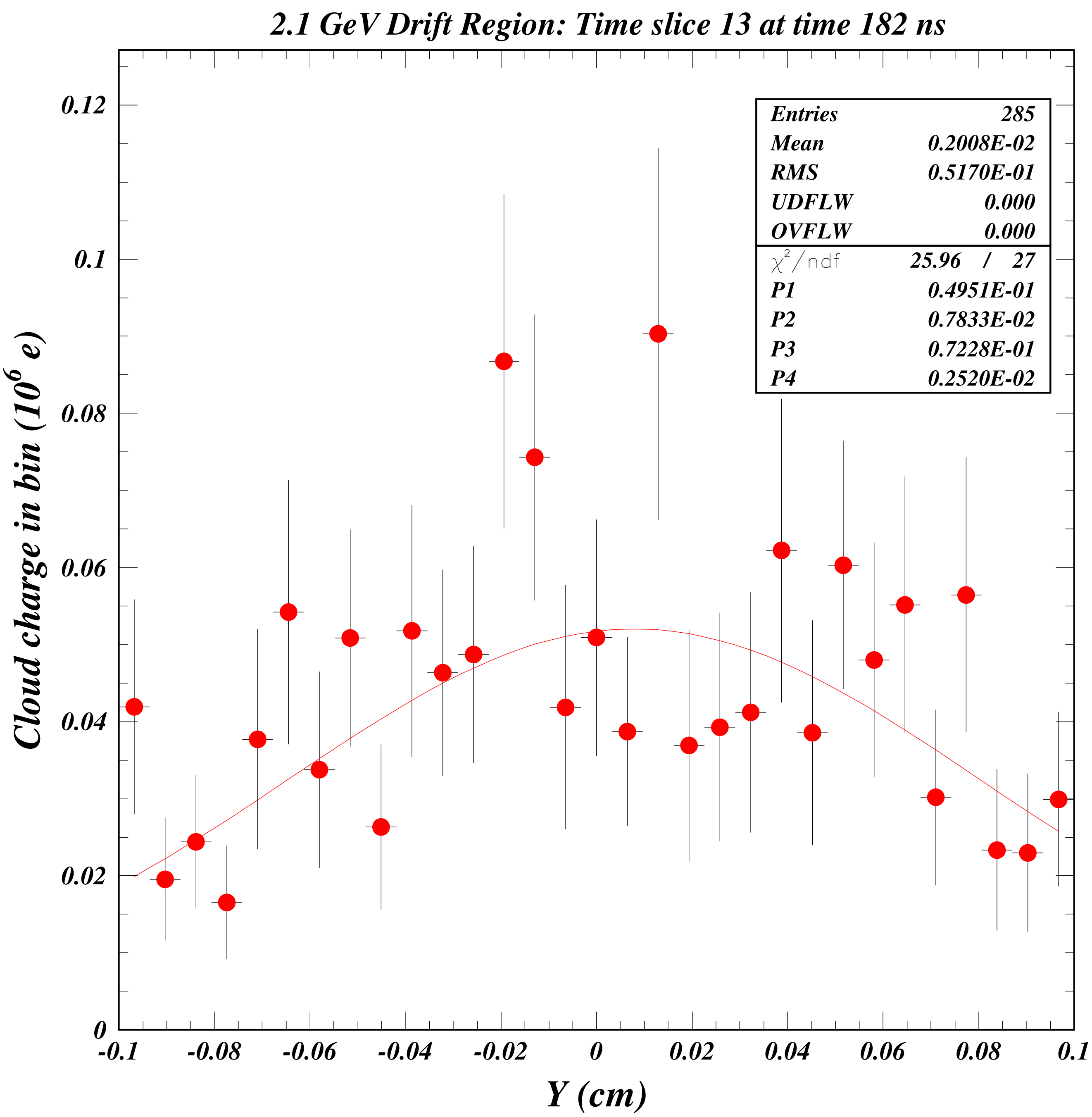

2.1 GeV Drift Region: Time slice 13 at time 182 ns
Entries 285
Mean -0.1206E-03
RMS 0.6004E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 65.29 / 27
P1 0.2241E-01
P2 0.4275E-02
P3 0.1642E-01
P4 0.2841E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

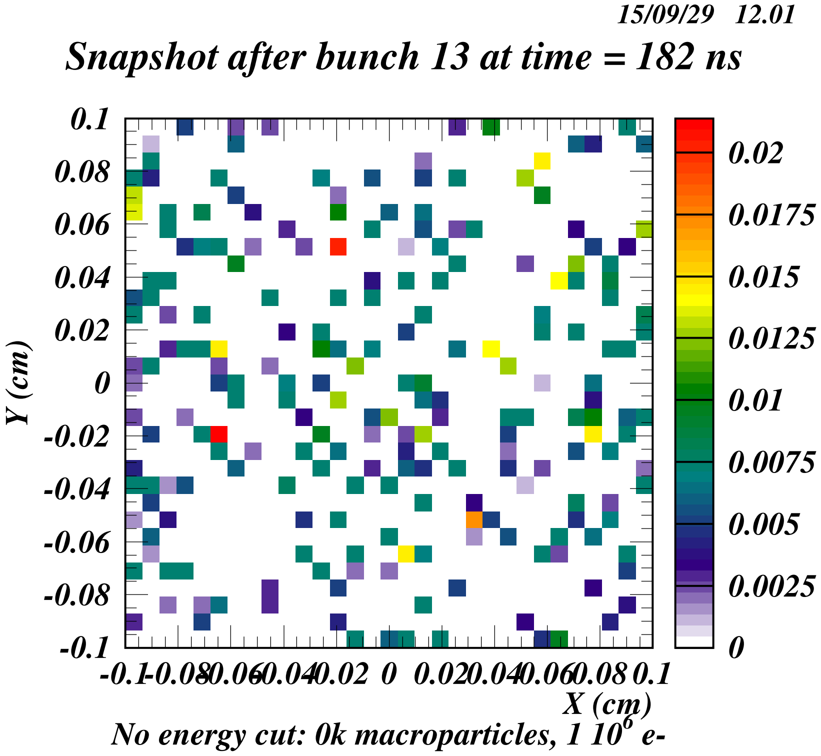
15/09/29 12.01



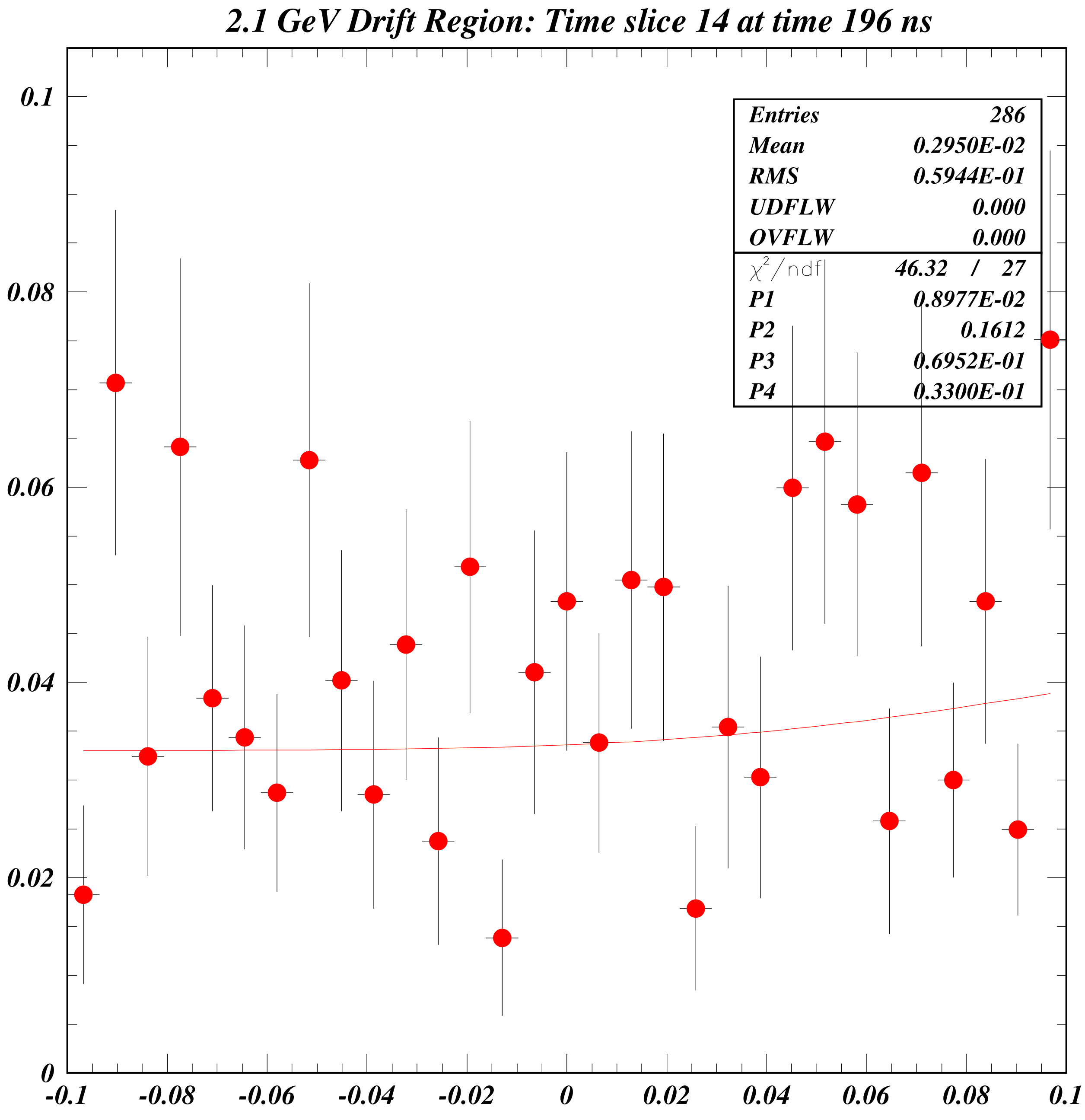
2.1 GeV Drift Region: Time slice 13 at time 182 ns
Entries 285
Mean -0.1206E-03
RMS 0.6004E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 65.29 / 27
P1 0.2241E-01
P2 0.4275E-02
P3 0.1642E-01
P4 0.2841E-01
Cloud charge in bin (10^6 e)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

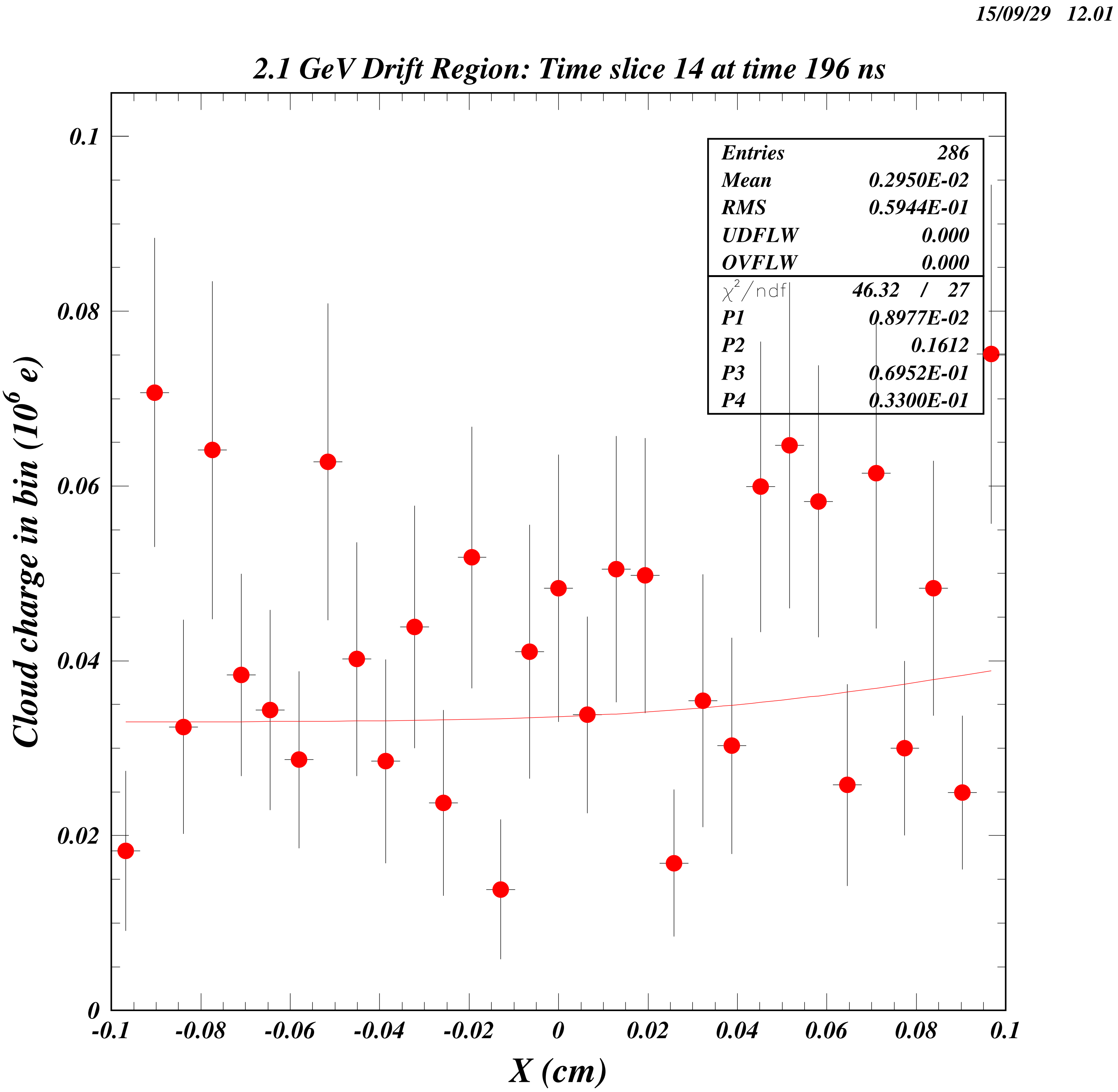

15/09/29 12.01
2.1 GeV Drift Region: Time slice 13 at time 182 ns
Entries 285
Mean 0.2008E-02
RMS 0.5170E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 25.96 / 27
P1 0.4951E-01
P2 0.7833E-02
P3 0.7228E-01
P4 0.2520E-02
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


2.1 GeV Drift Region: Time slice 13 at time 182 ns
Entries 285
Mean 0.2008E-02
RMS 0.5170E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 25.96 / 27
P1 0.4951E-01
P2 0.7833E-02
P3 0.7228E-01
P4 0.2520E-02
Cloud charge in bin (10⁶ 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)

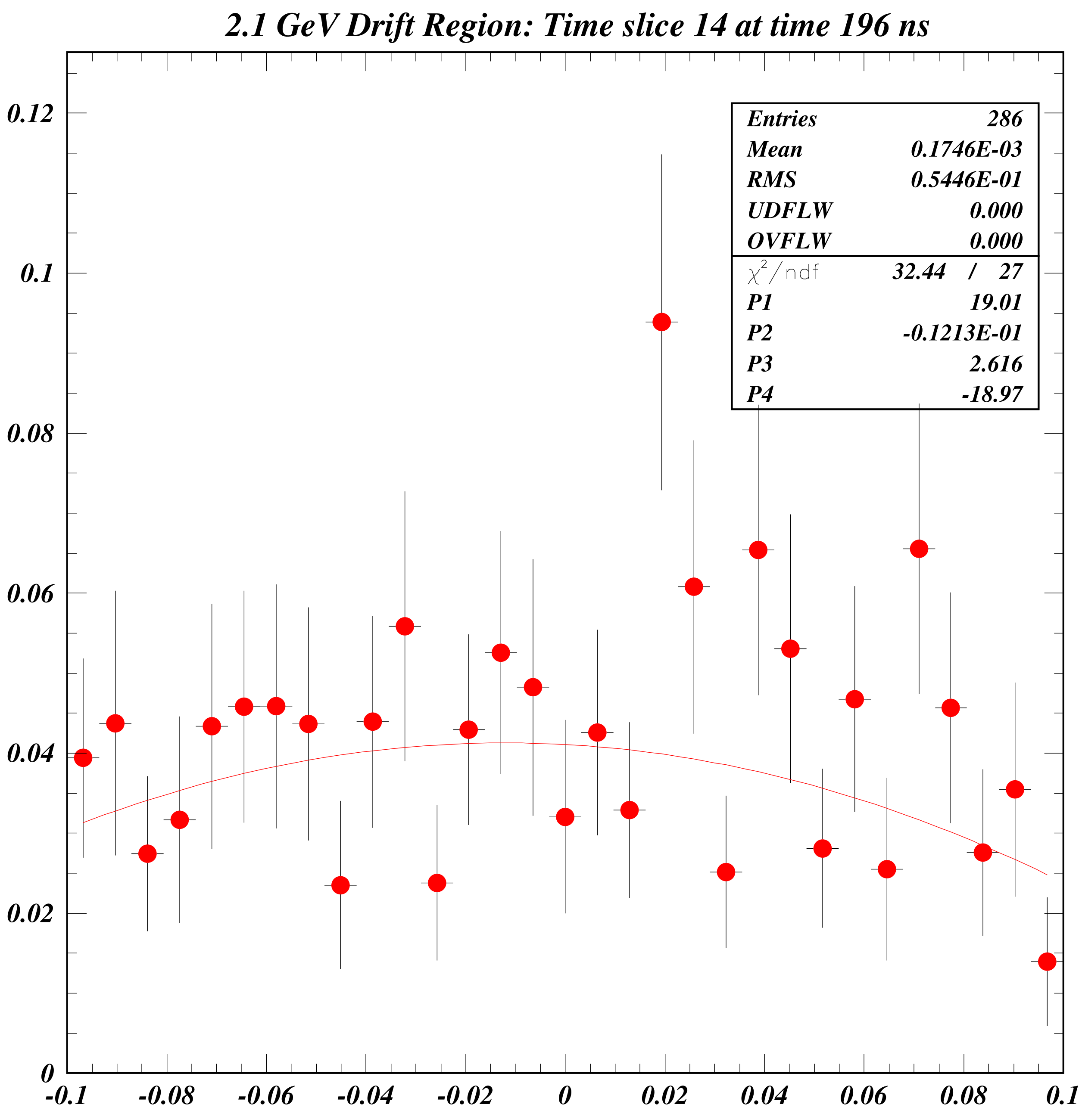

15/09/29 12.01
Snapshot after bunch 13 at time = 182 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
No energy cut: 0k macroparticles, 1 10^6 e-

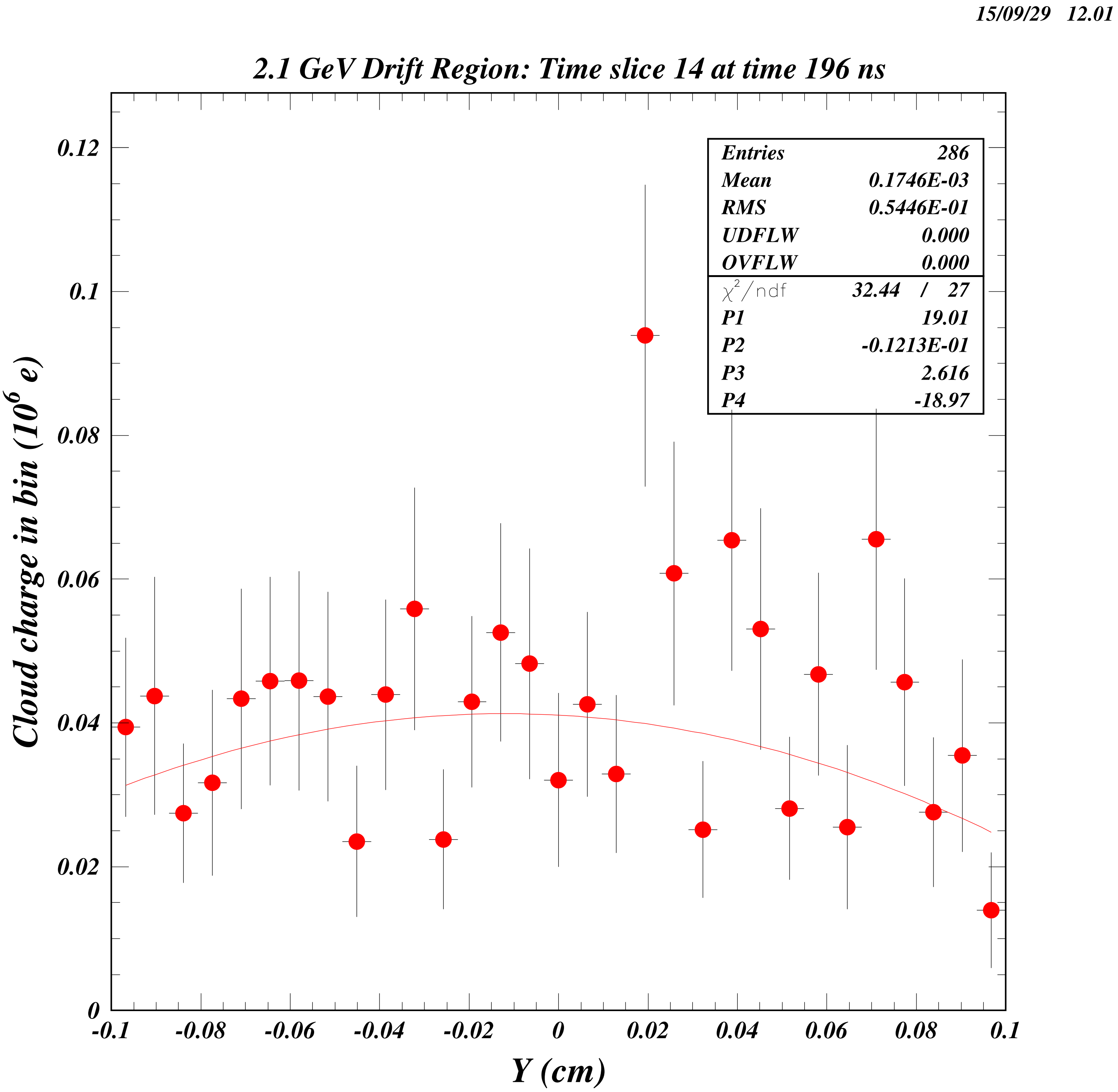
15/09/29 12.01

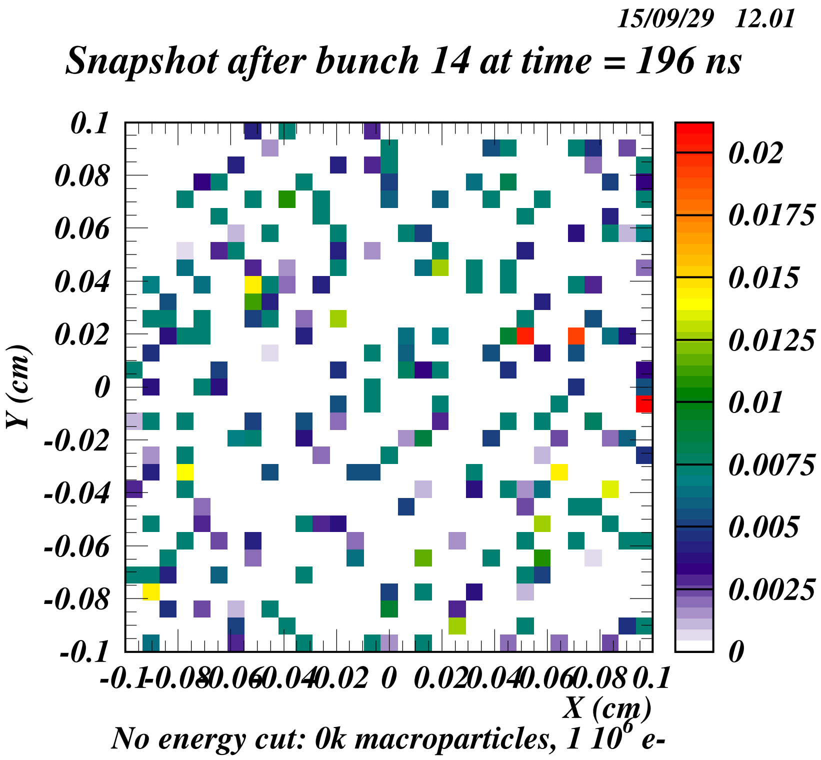

2.1 GeV Drift Region: Time slice 14 at time 196 ns
Entries 286
Mean 0.2950E-02
RMS 0.5944E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 46.32 / 27
P1 0.8977E-02
P2 0.1612
P3 0.6952E-01
P4 0.3300E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 14 at time 196 ns
Entries 286
Mean 0.2950E-02
RMS 0.5944E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 46.32 / 27
P1 0.8977E-02
P2 0.1612
P3 0.6952E-01
P4 0.3300E-01
Cloud charge in bin (10⁶ e)
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
X (cm)

15/09/29 12.01


2.1 GeV Drift Region: Time slice 14 at time 196 ns
Entries 286
Mean 0.1746E-03
RMS 0.5446E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 32.44 / 27
P1 19.01
P2 -0.1213E-01
P3 2.616
P4 -18.97
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

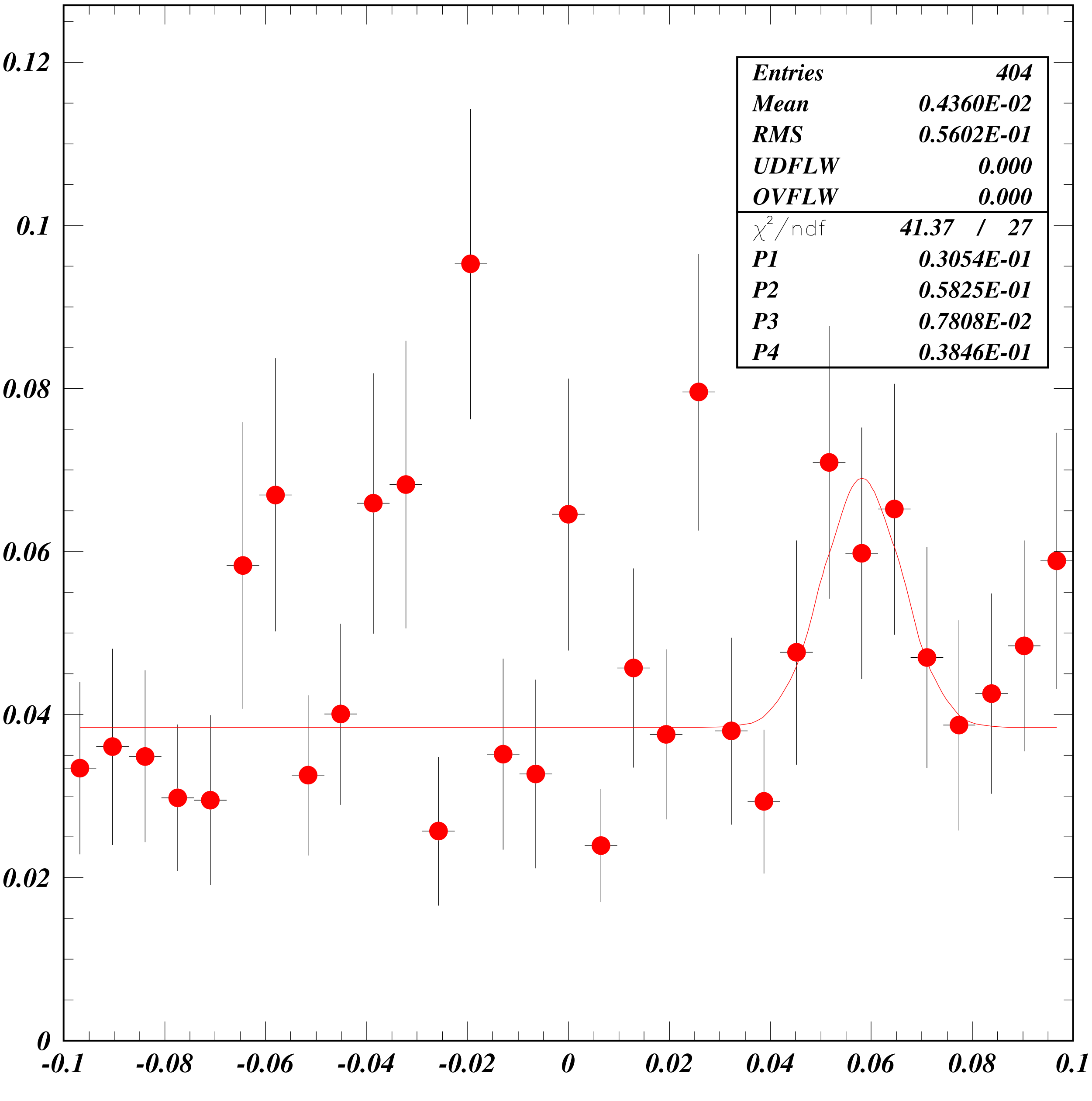

15/09/29 12.01
2.1 GeV Drift Region: Time slice 14 at time 196 ns
Entries 286
Mean 0.1746E-03
RMS 0.5446E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 32.44 / 27
P1 19.01
P2 -0.1213E-01
P3 2.616
P4 -18.97
Cloud charge in bin (10^6 e)
Y (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

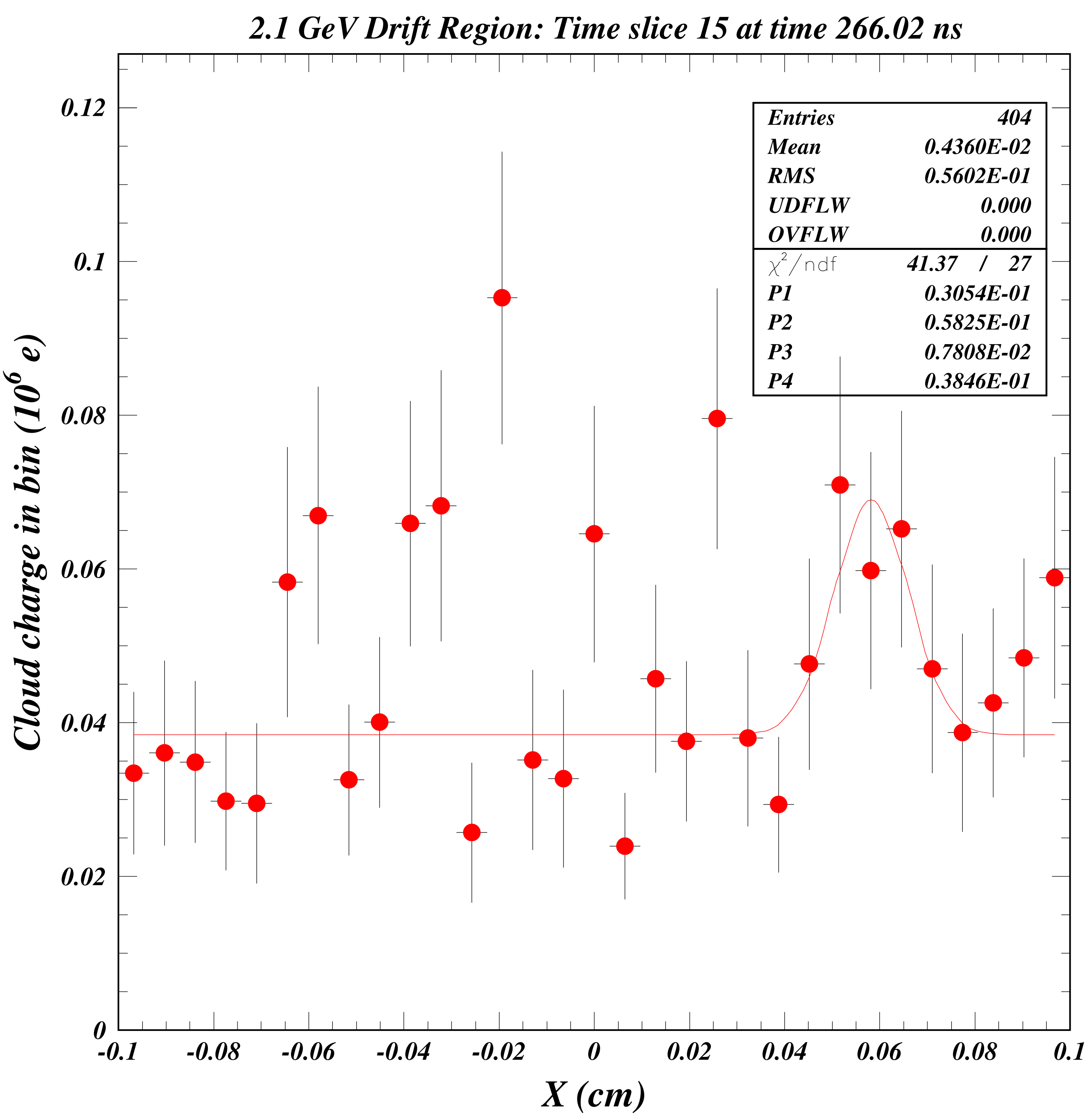


15/09/29 12.01
Snapshot after bunch 14 at time = 196 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01

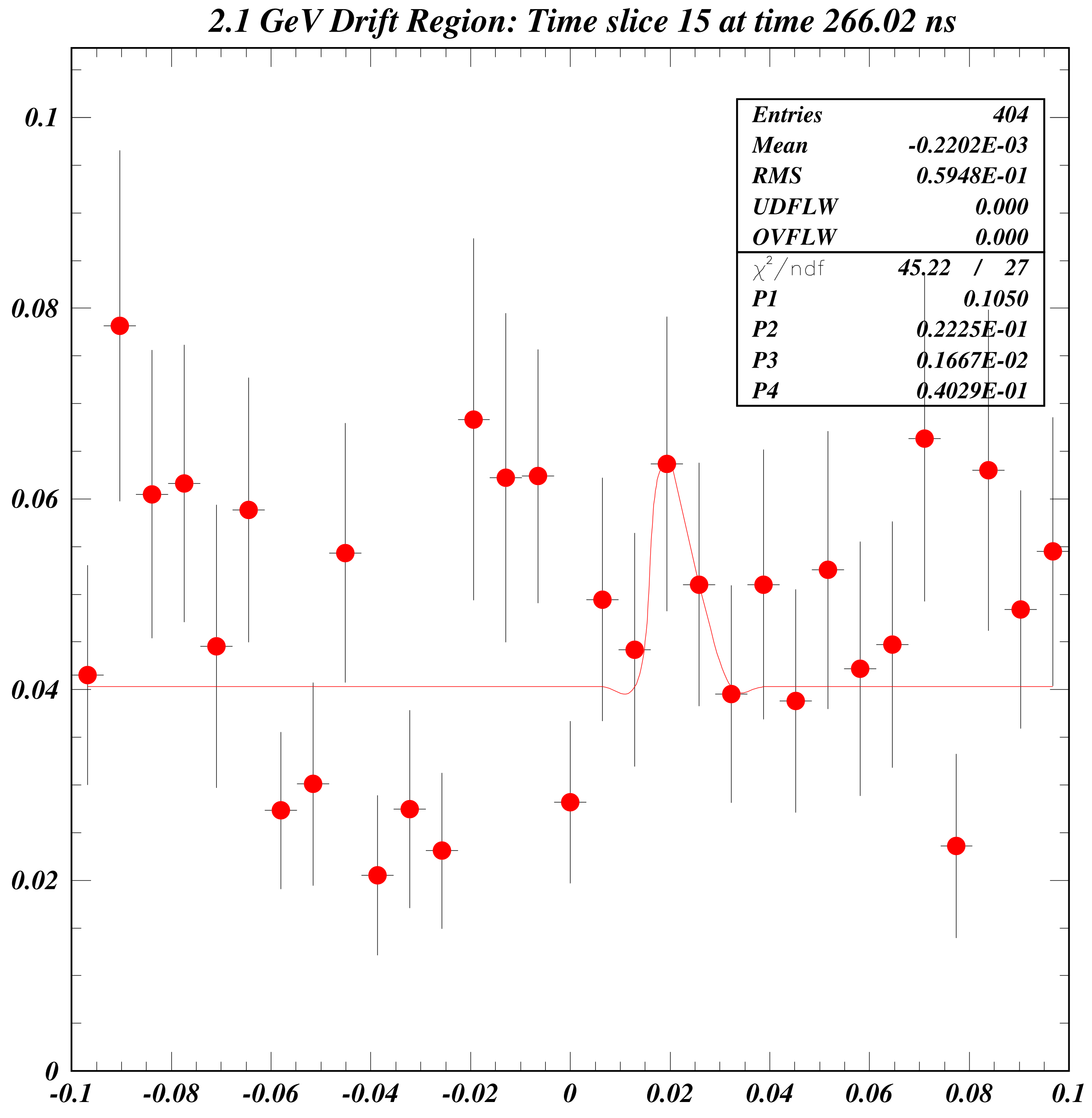
2.1 GeV Drift Region: Time slice 15 at time 266.02 ns



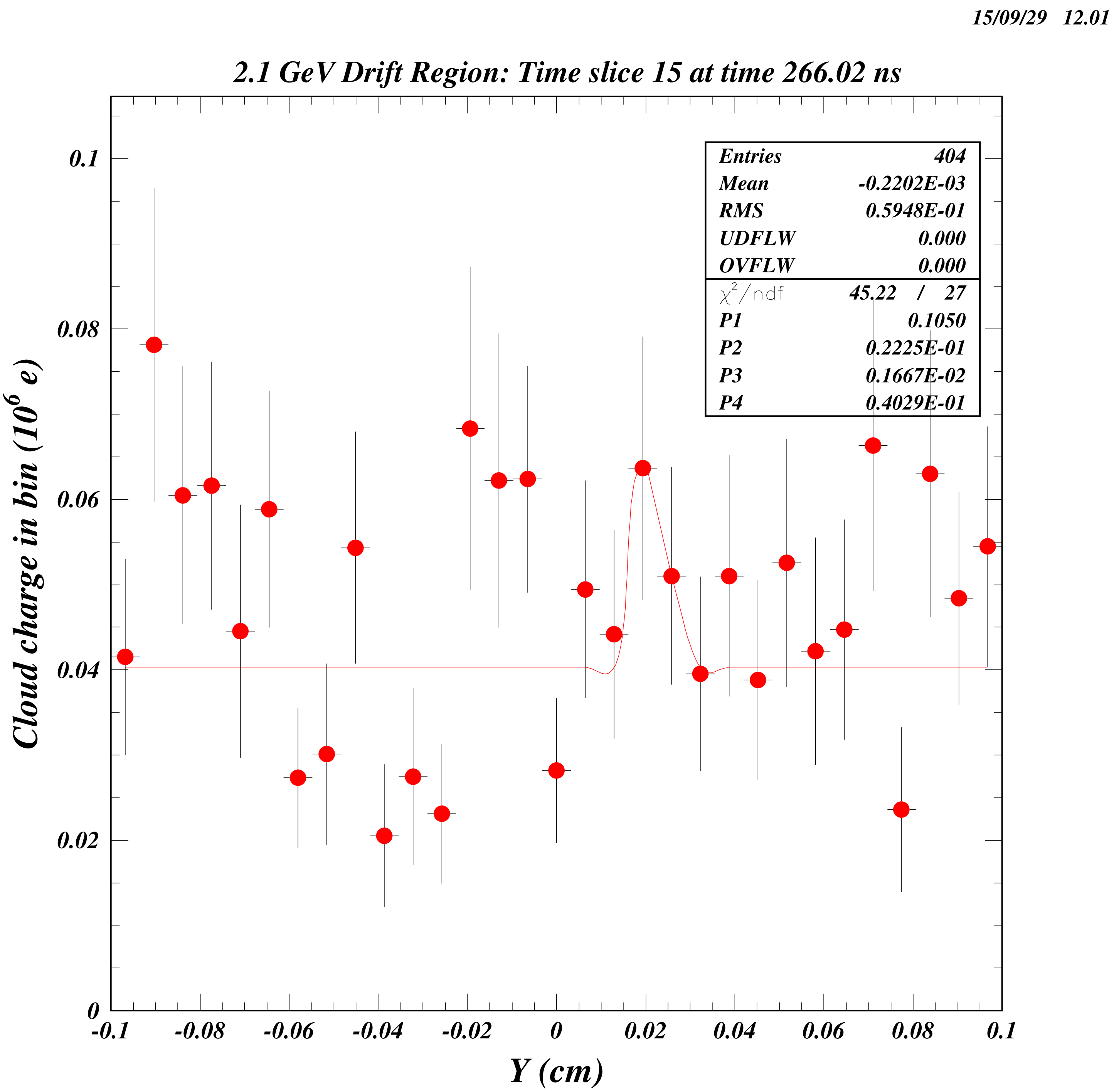


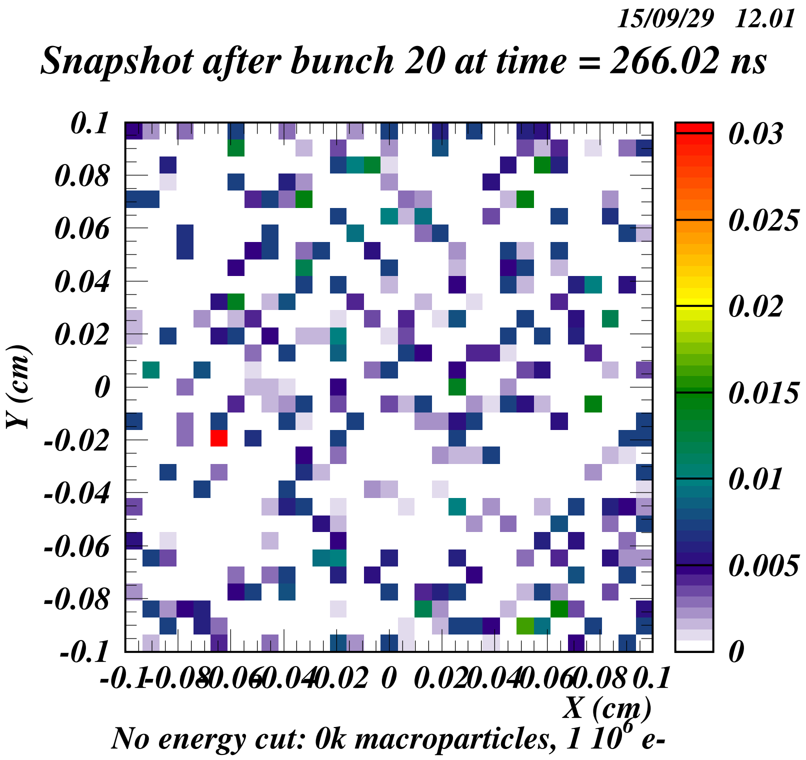
2.1 GeV Drift Region: Time slice 15 at time 266.02 ns
Entries 404
Mean 0.4360E-02
RMS 0.5602E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 41.37 / 27
P1 0.3054E-01
P2 0.5825E-01
P3 0.7808E-02
P4 0.3846E-01
Cloud charge in bin (10^6 e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01



2.1 GeV Drift Region: Time slice 15 at time 266.02 ns
Entries 404
Mean -0.2202E-03
RMS 0.5948E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.22 / 27
P1 0.1050
P2 0.2225E-01
P3 0.1667E-02
P4 0.4029E-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

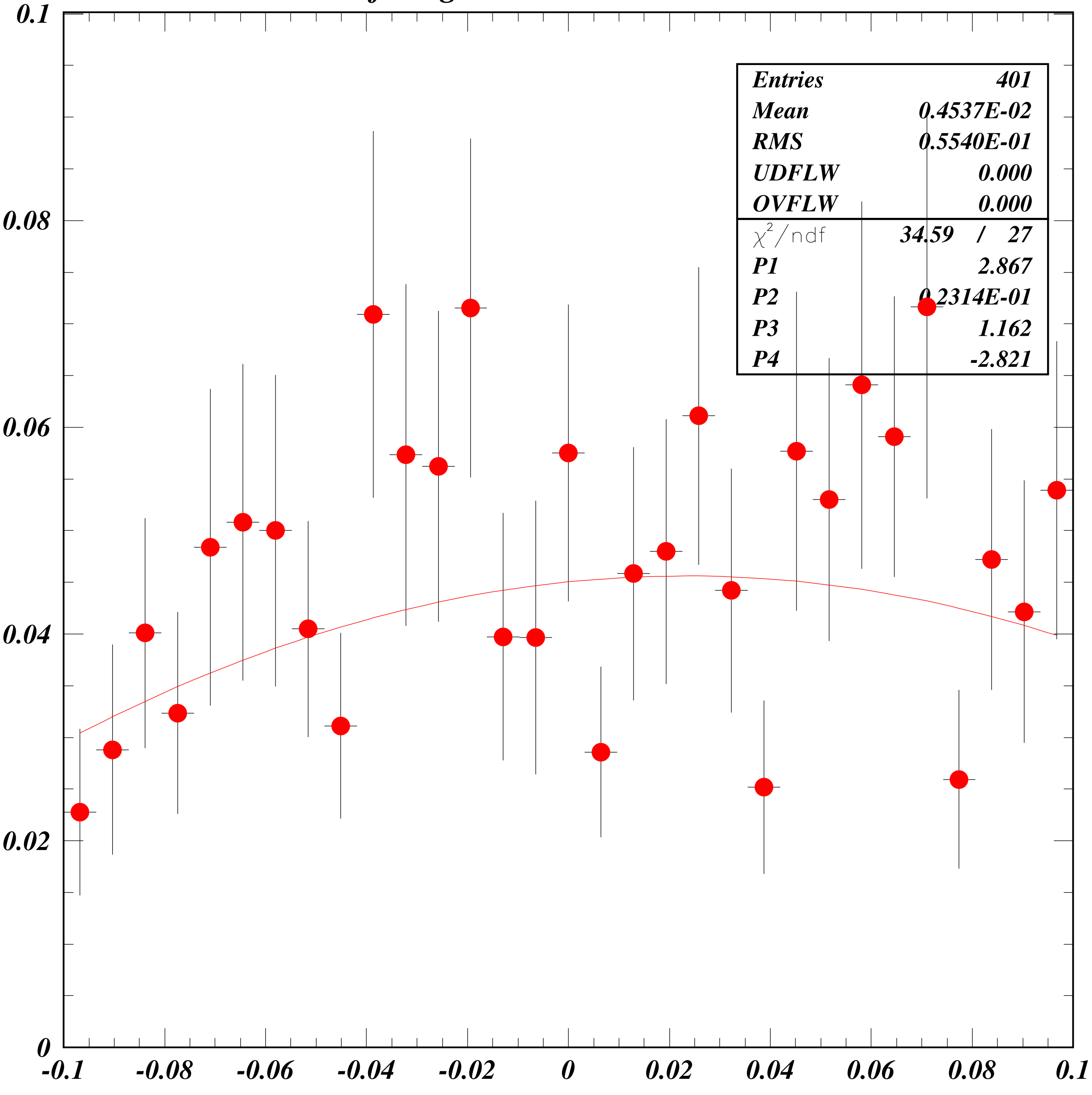

15/09/29 12.01
2.1 GeV Drift Region: Time slice 15 at time 266.02 ns
Entries 404
Mean -0.2202E-03
RMS 0.5948E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.22 / 27
P1 0.1050
P2 0.2225E-01
P3 0.1667E-02
P4 0.4029E-01
Cloud charge in bin (10^6 e)
Y (cm)

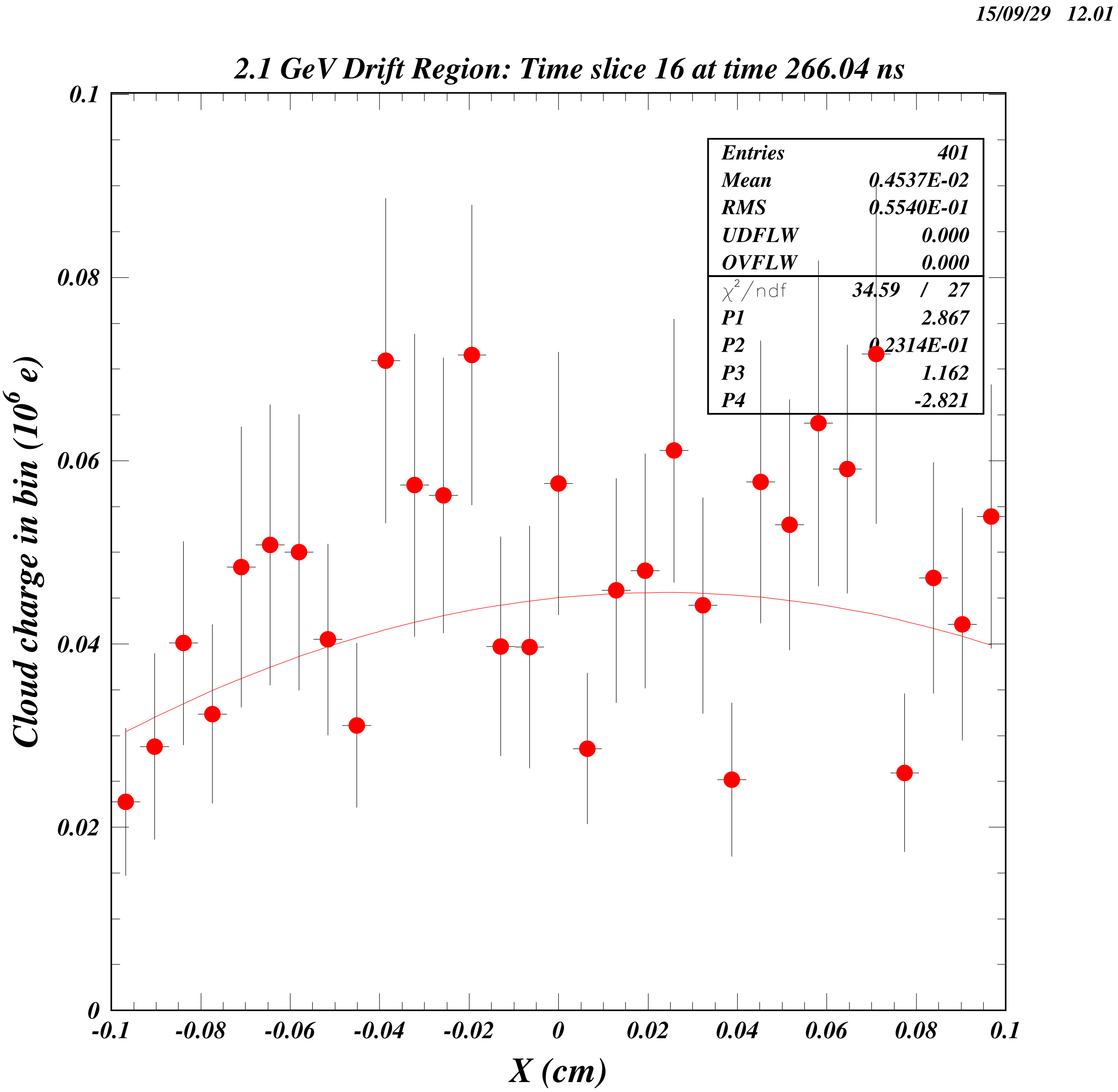


15/09/29 12.01
Snapshot after bunch 20 at time = 266.02 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.03
0.025
0.02
0.015
0.01
0.005
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01

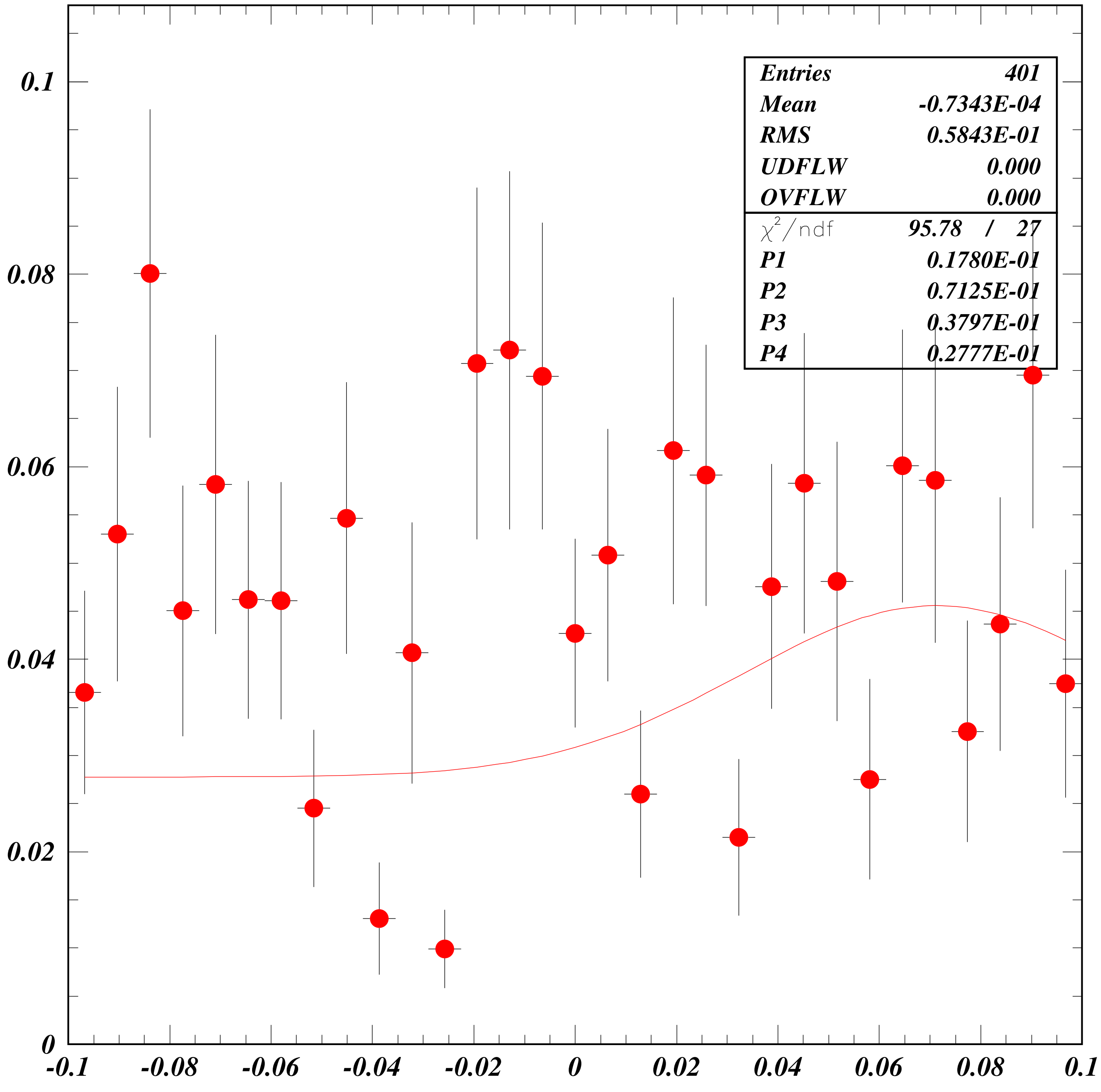
2.1 GeV Drift Region: Time slice 16 at time 266.04 ns

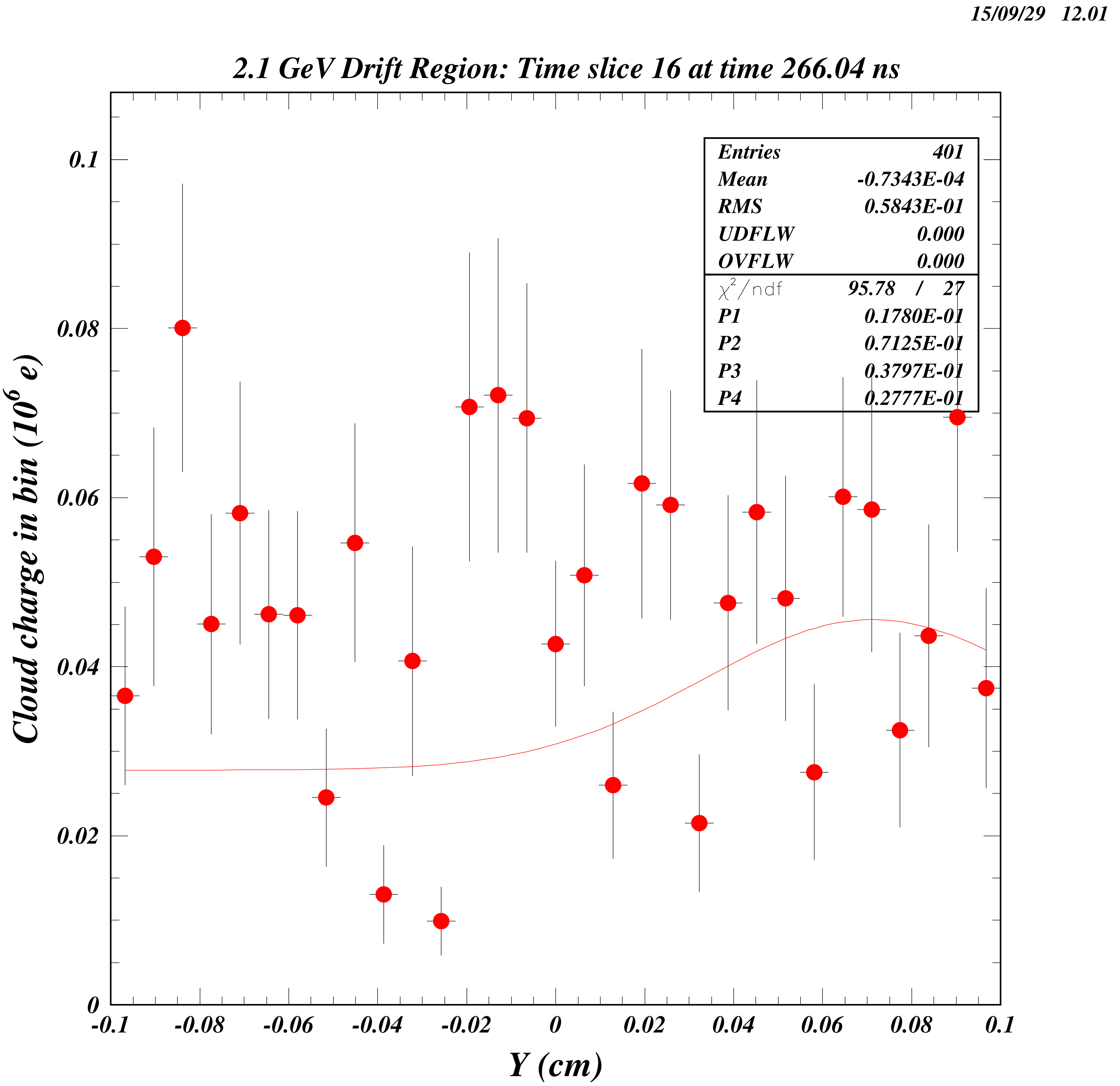



15/09/29 12.01
2.1 GeV Drift Region: Time slice 16 at time 266.04 ns
Entries 401
Mean 0.4537E-02
RMS 0.5540E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 34.59 / 27
P1 2.867
P2 0.2314E-01
P3 1.162
P4 -2.821
Cloud charge in bin (10⁶ e)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

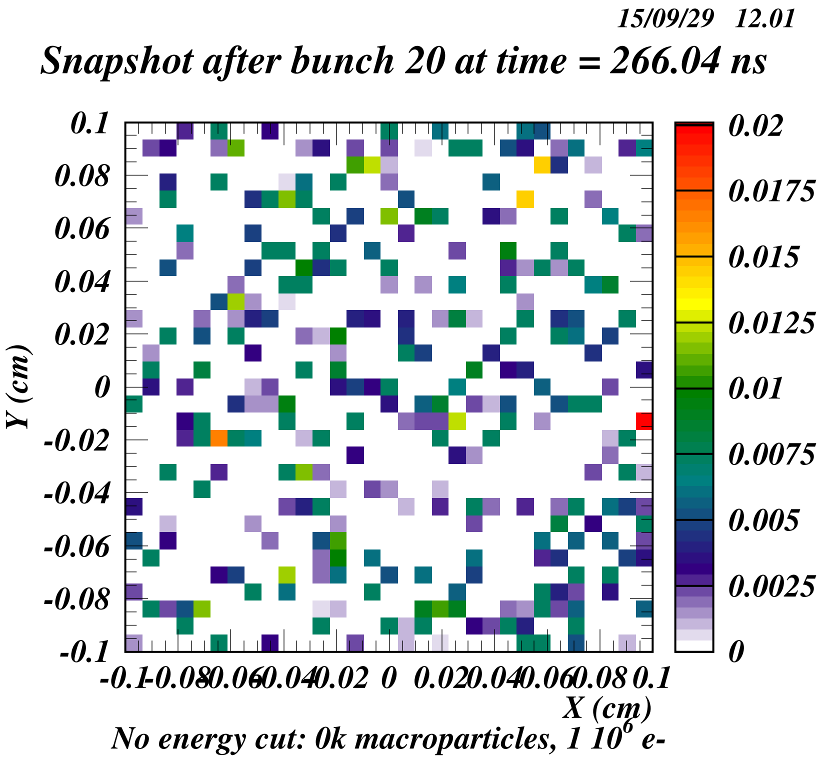
15/09/29 12.01

2.1 GeV Drift Region: Time slice 16 at time 266.04 ns



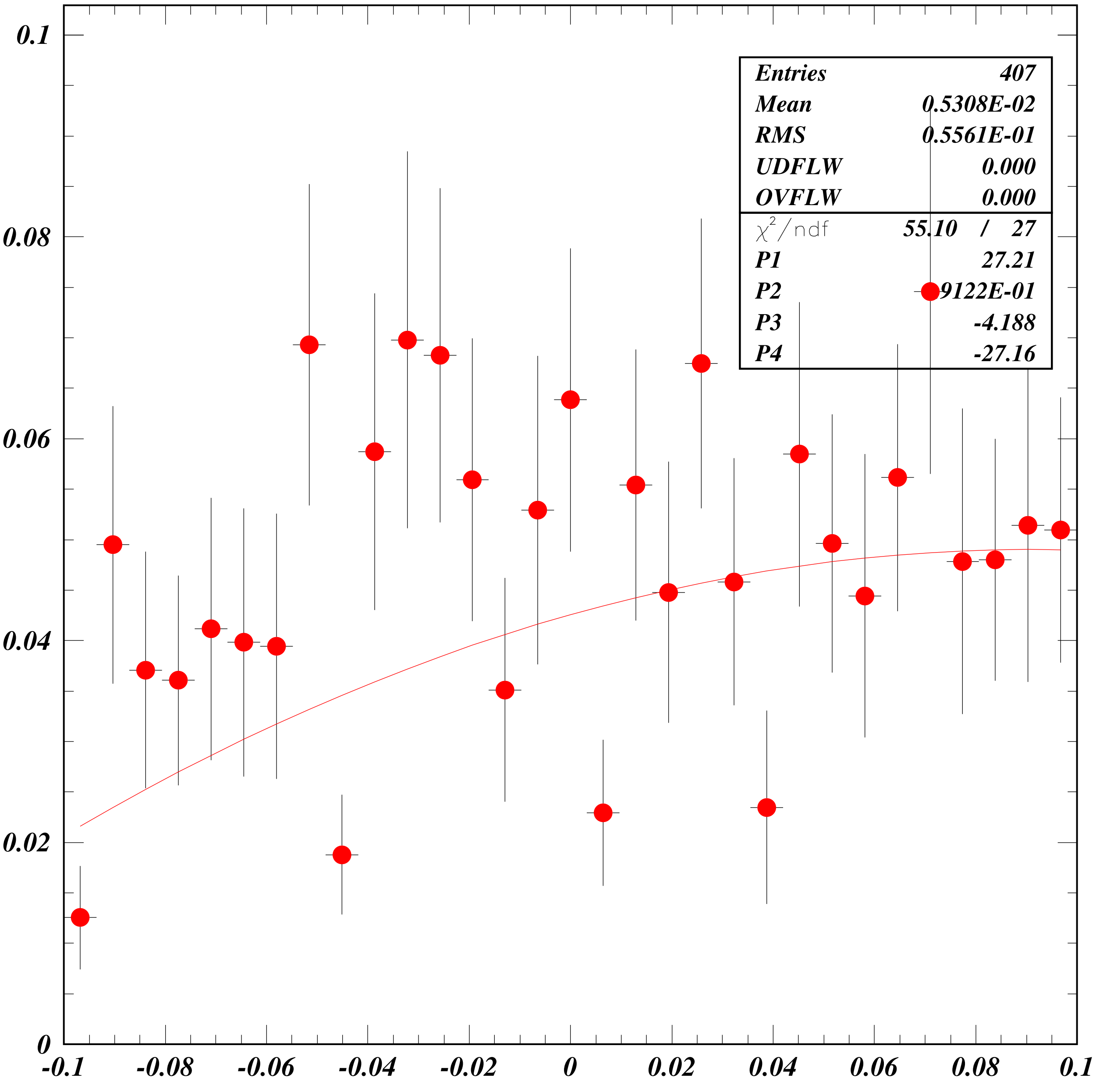


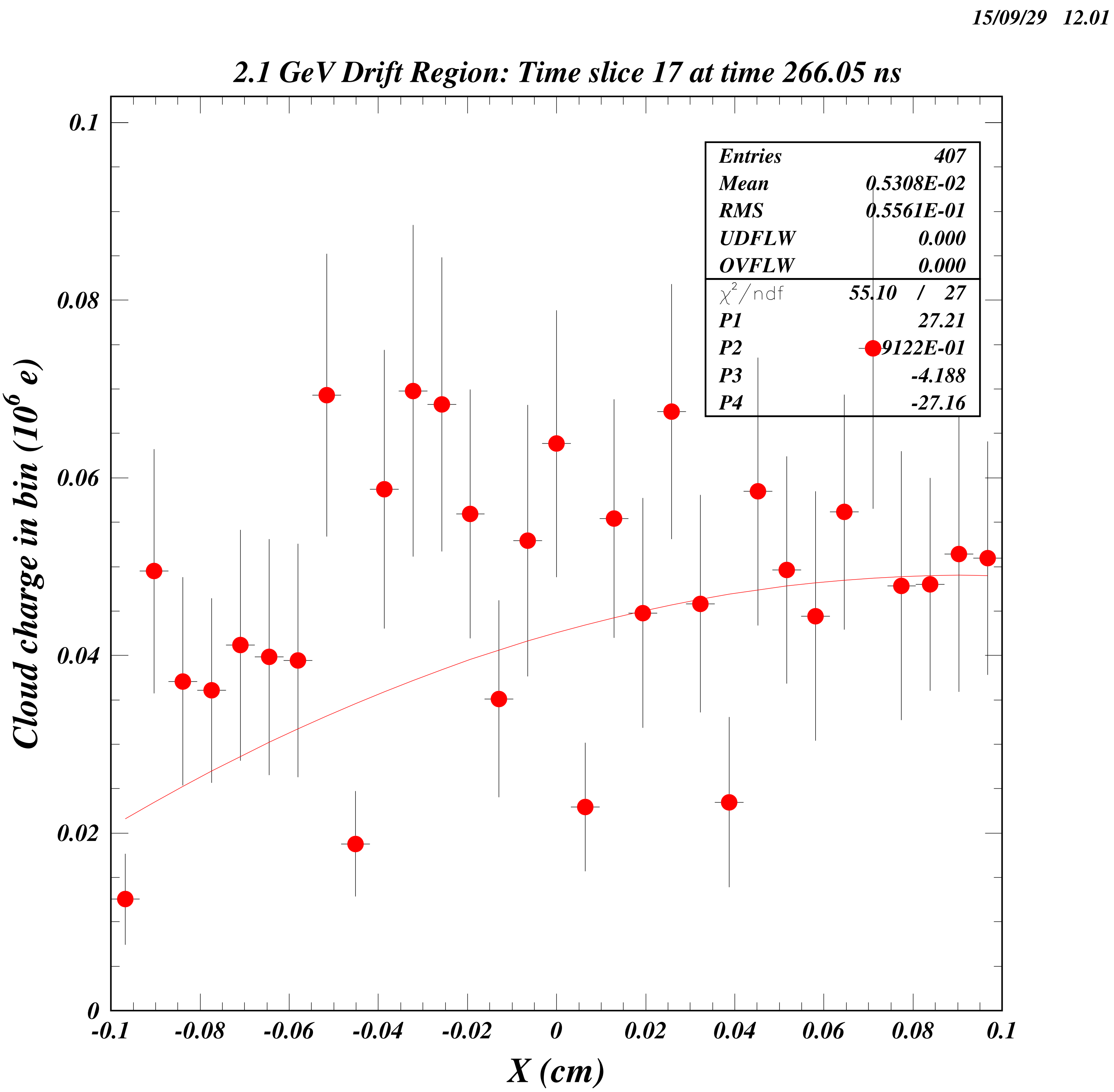
15/09/29 12.01
2.1 GeV Drift Region: Time slice 16 at time 266.04 ns
Entries 401
Mean -0.7343E-04
RMS 0.5843E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 95.78 / 27
P1 0.1780E-01
P2 0.7125E-01
P3 0.3797E-01
P4 0.2777E-01
Cloud charge in bin (10^6 e)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1
Y (cm)


15/09/29 12.01
Snapshot after bunch 20 at time = 266.04 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: 0k macroparticles, 1 10^6 e-

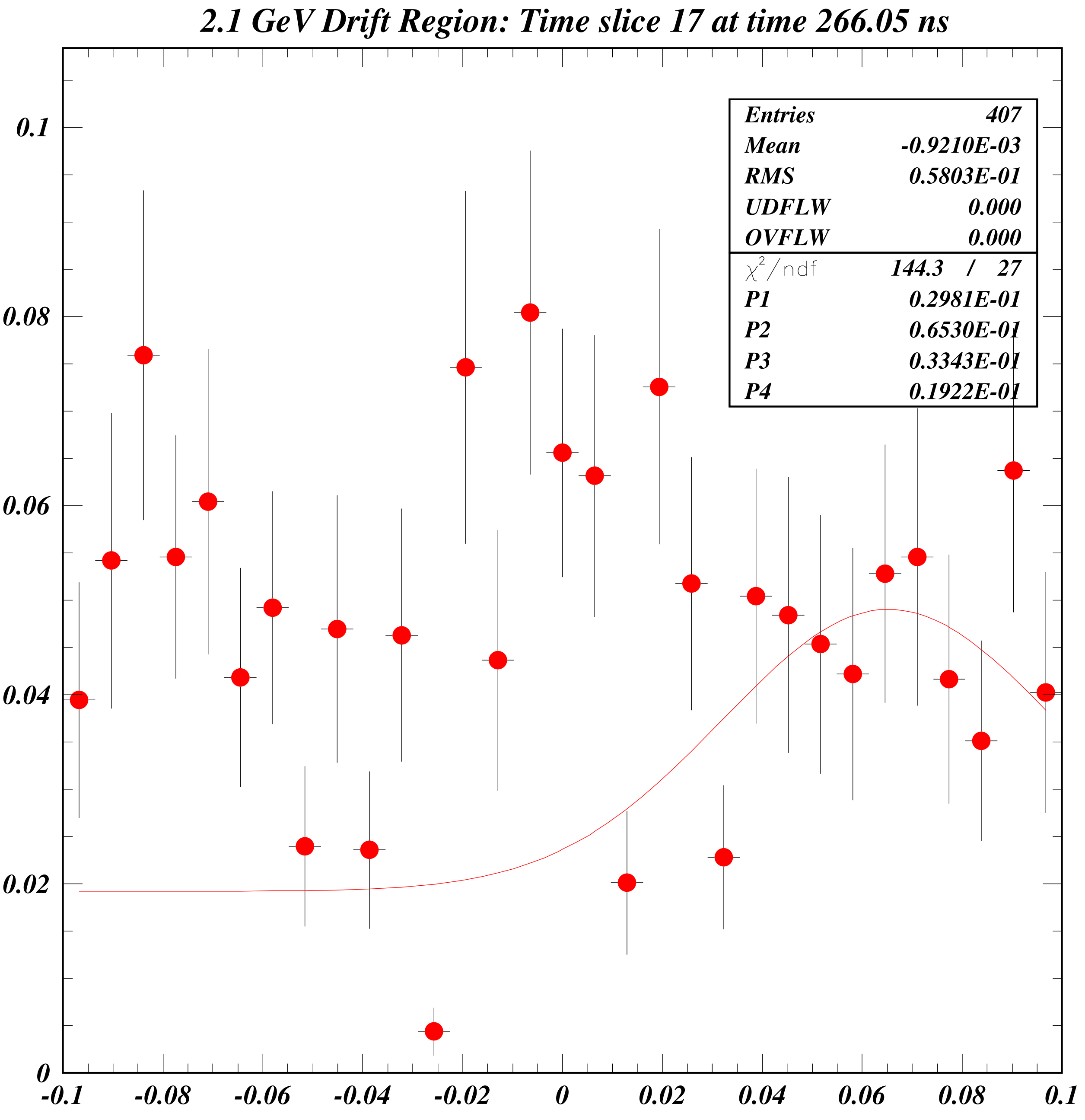
15/09/29 12.01

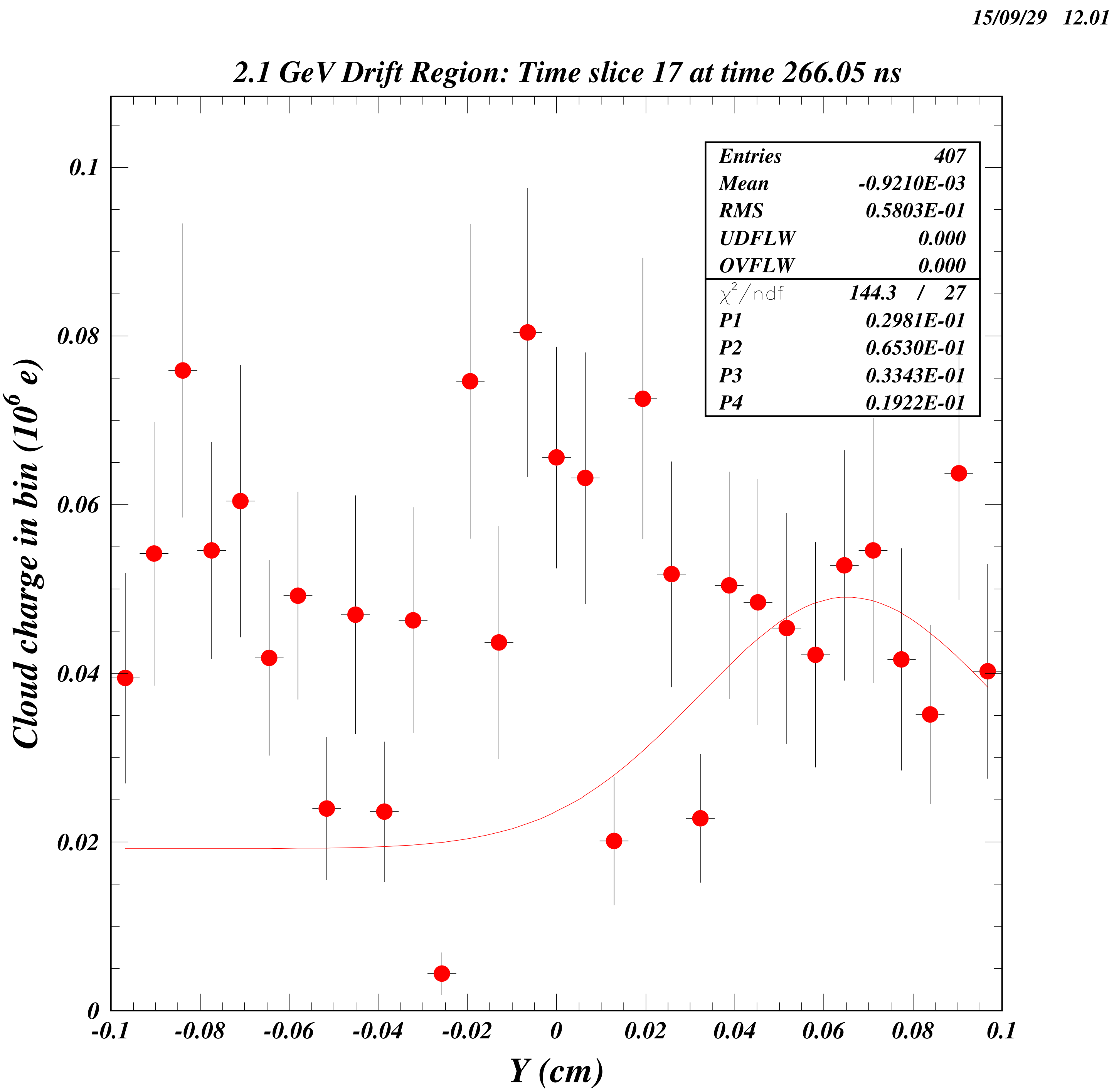
2.1 GeV Drift Region: Time slice 17 at time 266.05 ns

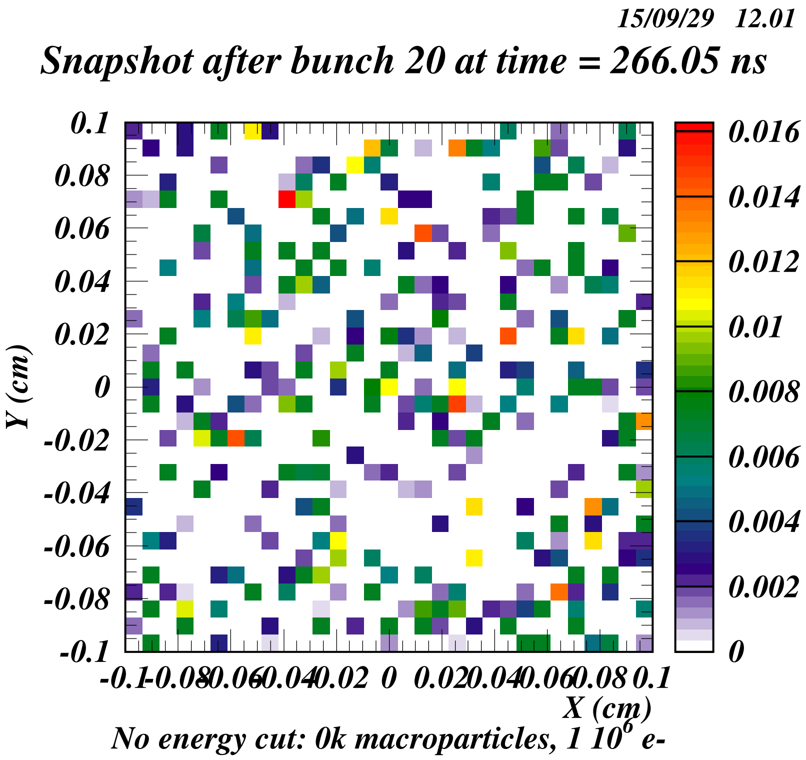




15/09/29 12.01
2.1 GeV Drift Region: Time slice 17 at time 266.05 ns
Entries 407
Mean 0.5308E-02
RMS 0.5561E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 55.10 / 27
P1 27.21
P2 .9122E-01
P3 -4.188
P4 -27.16
Cloud charge in bin (10⁶ e)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

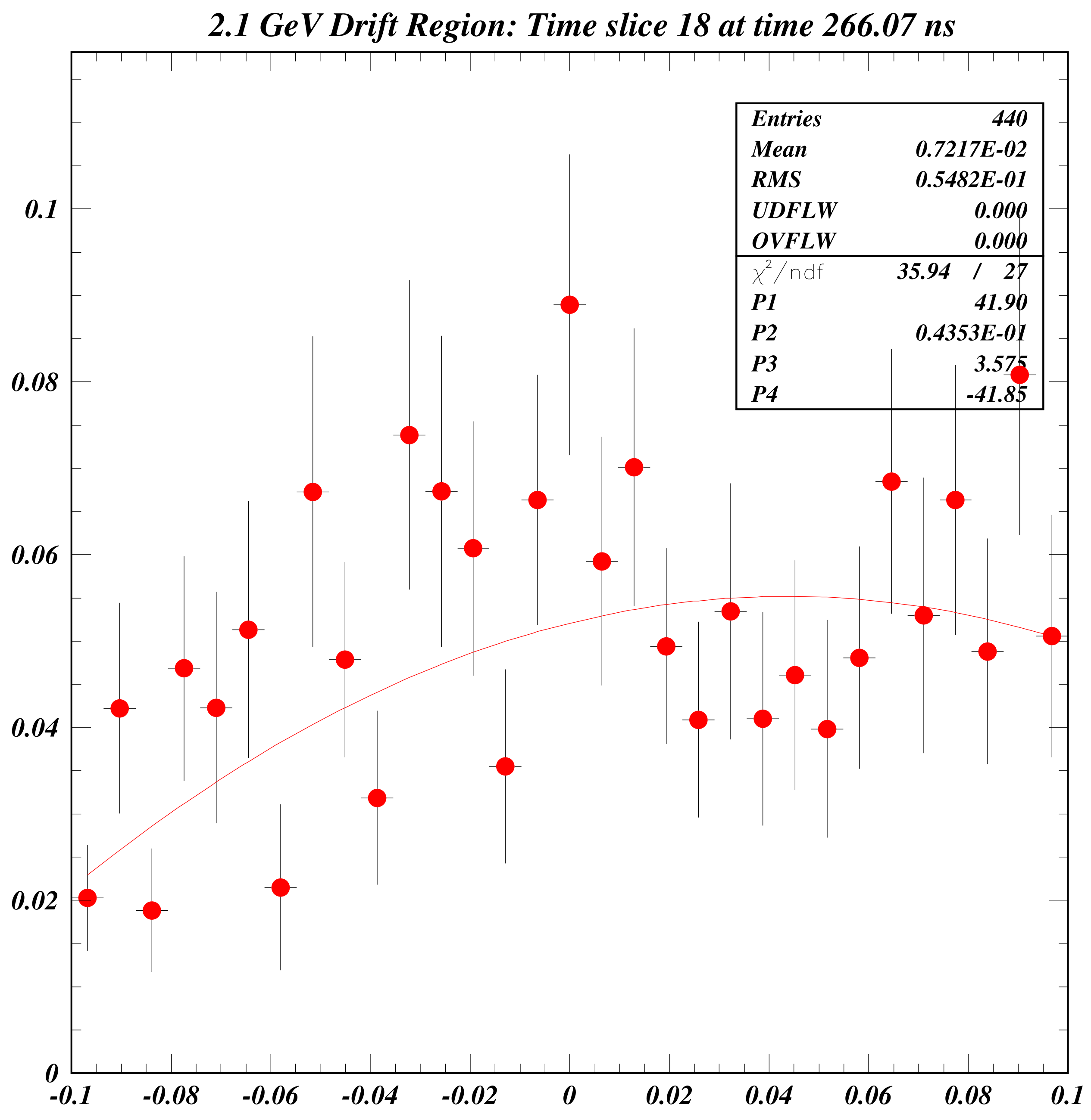

2.1 GeV Drift Region: Time slice 17 at time 266.05 ns
Entries 407
Mean -0.9210E-03
RMS 0.5803E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 144.3 / 27
P1 0.2981E-01
P2 0.6530E-01
P3 0.3343E-01
P4 0.1922E-01
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

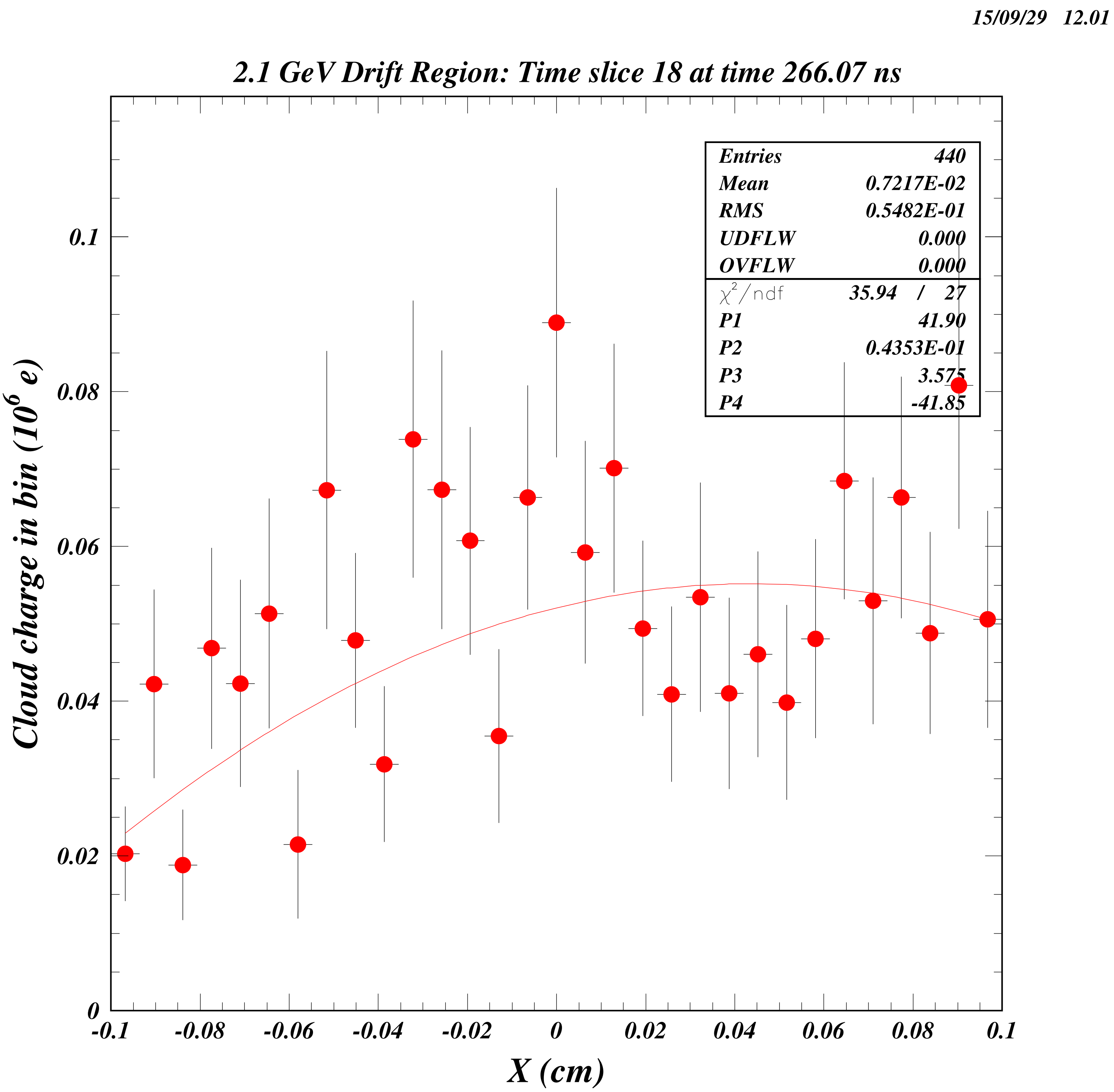

15/09/29 12.01
2.1 GeV Drift Region: Time slice 17 at time 266.05 ns
Entries 407
Mean -0.9210E-03
RMS 0.5803E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 144.3 / 27
P1 0.2981E-01
P2 0.6530E-01
P3 0.3343E-01
P4 0.1922E-01
Cloud charge in bin (10^6 e)
Y (cm)



15/09/29 12.01
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
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
No energy cut: 0k macroparticles, 1 10^6 e-

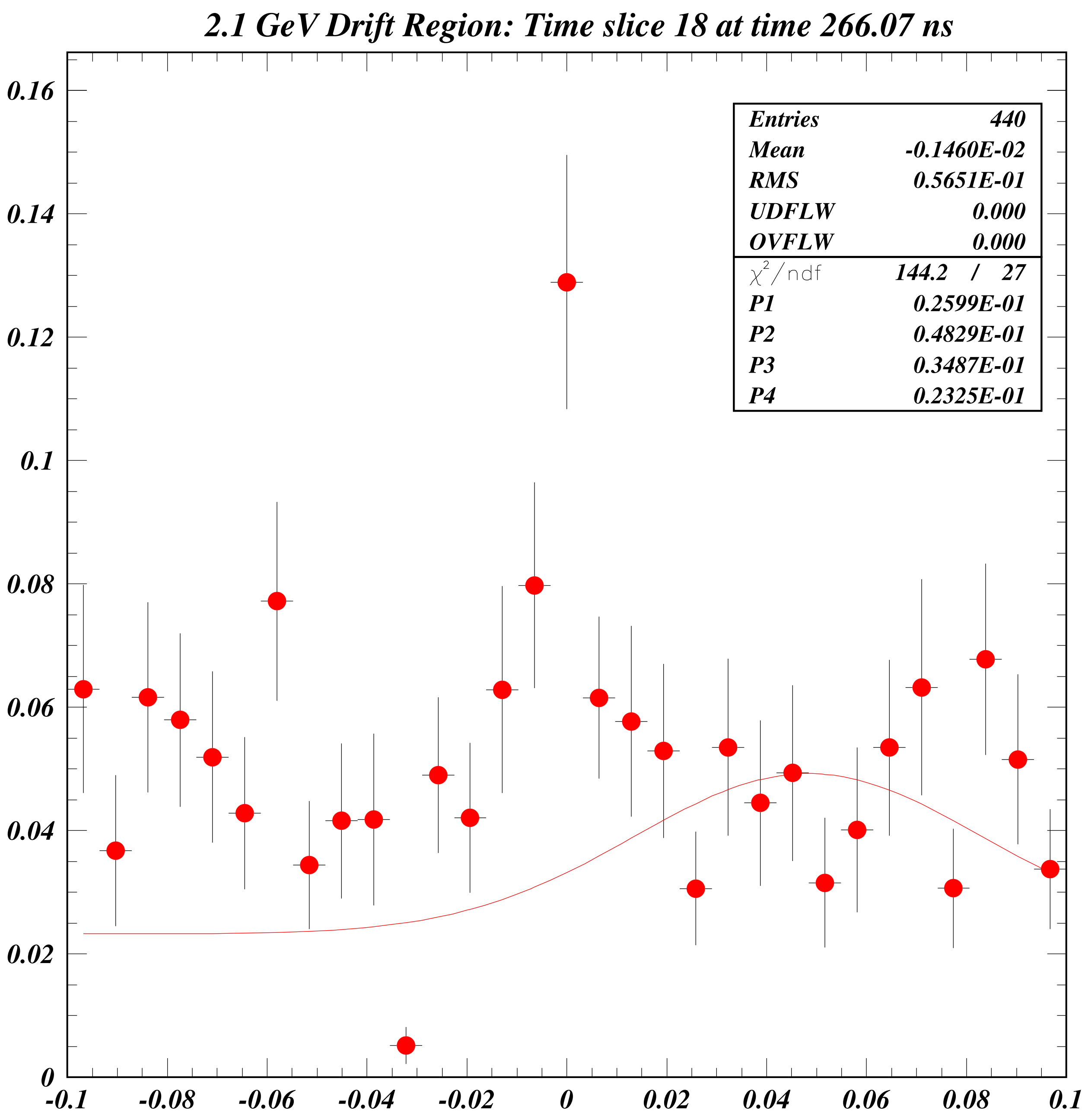
15/09/29 12.01


2.1 GeV Drift Region: Time slice 18 at time 266.07 ns
Entries 440
Mean 0.7217E-02
RMS 0.5482E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.94 / 27
P1 41.90
P2 0.4353E-01
P3 3.575
P4 -41.85
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

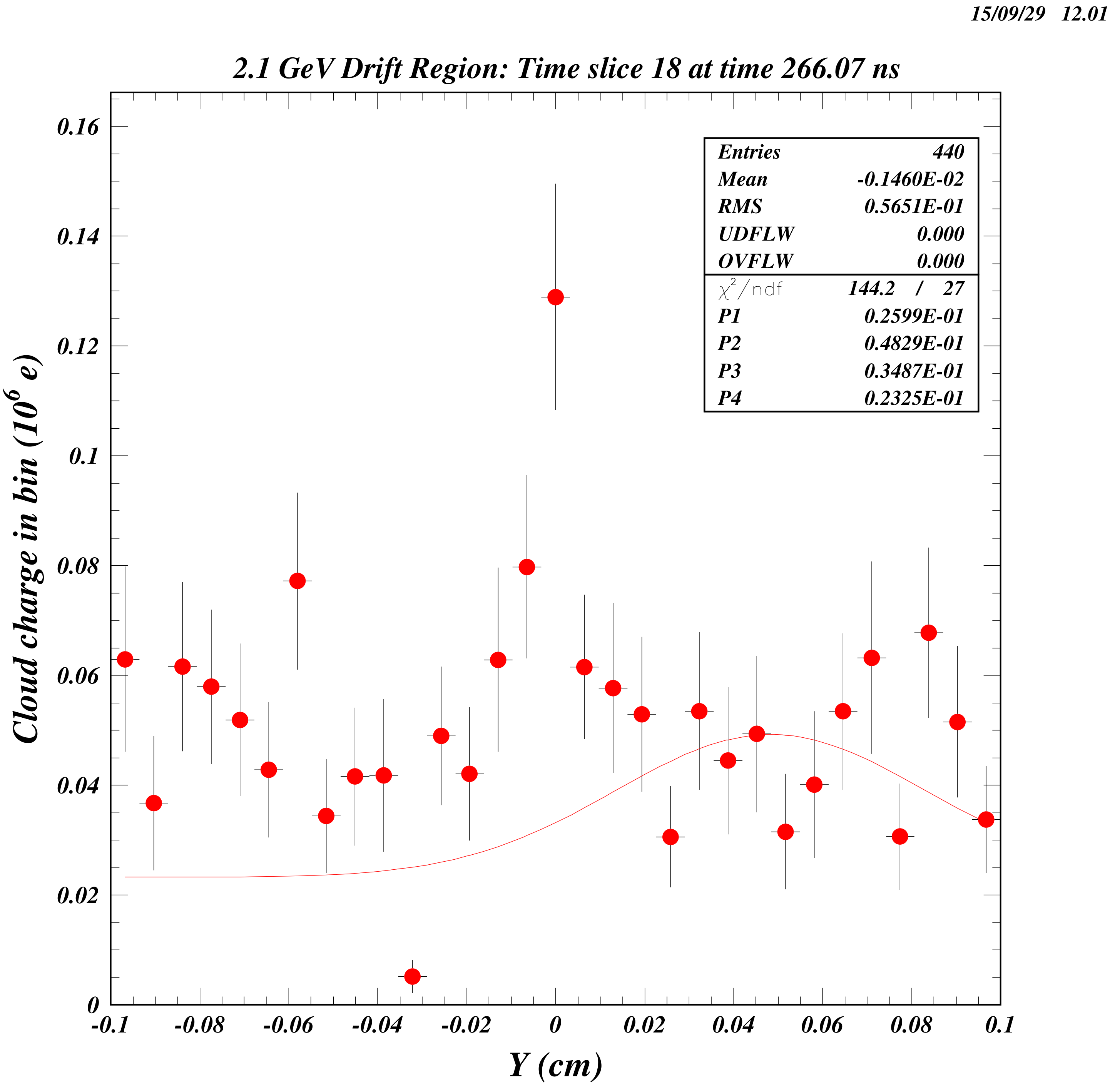


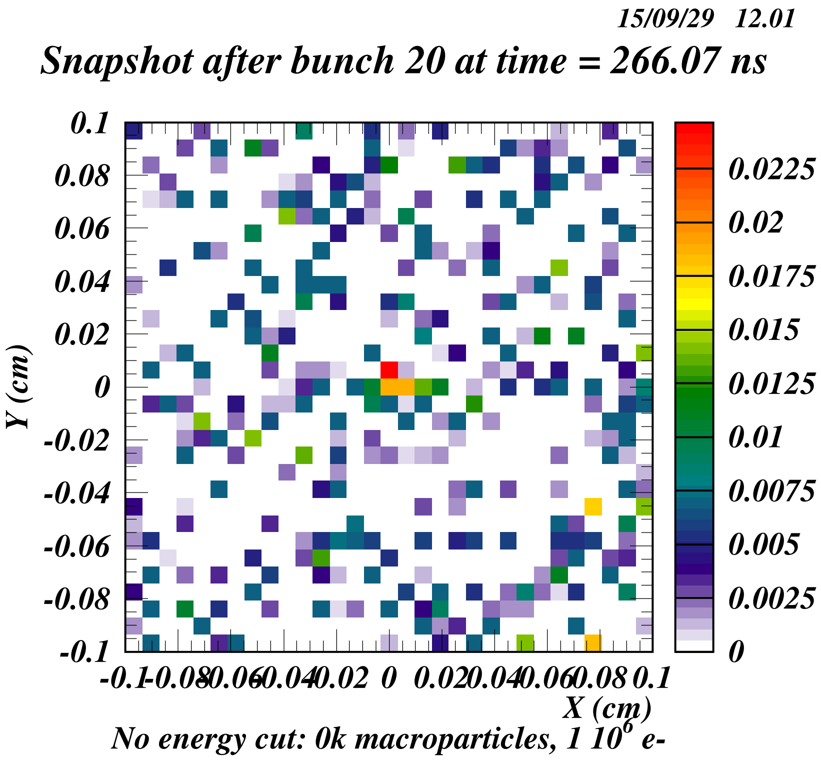
15/09/29 12.01
2.1 GeV Drift Region: Time slice 18 at time 266.07 ns
Entries 440
Mean 0.7217E-02
RMS 0.5482E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 35.94 / 27
P1 41.90
P2 0.4353E-01
P3 3.575
P4 -41.85
Cloud charge in bin (10⁶ e)
X (cm)
0
0.02
0.04
0.06
0.08
0.1
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01

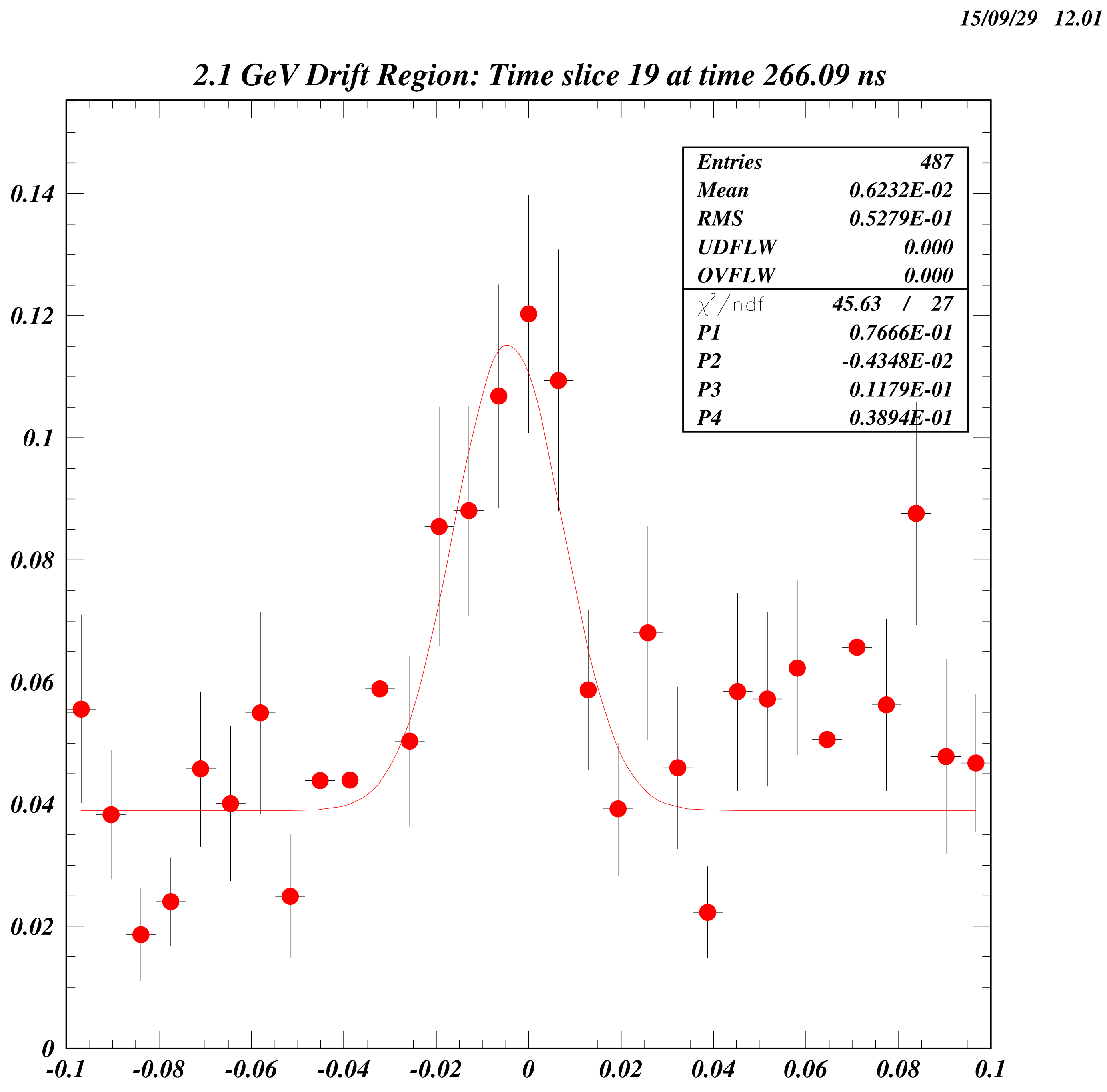


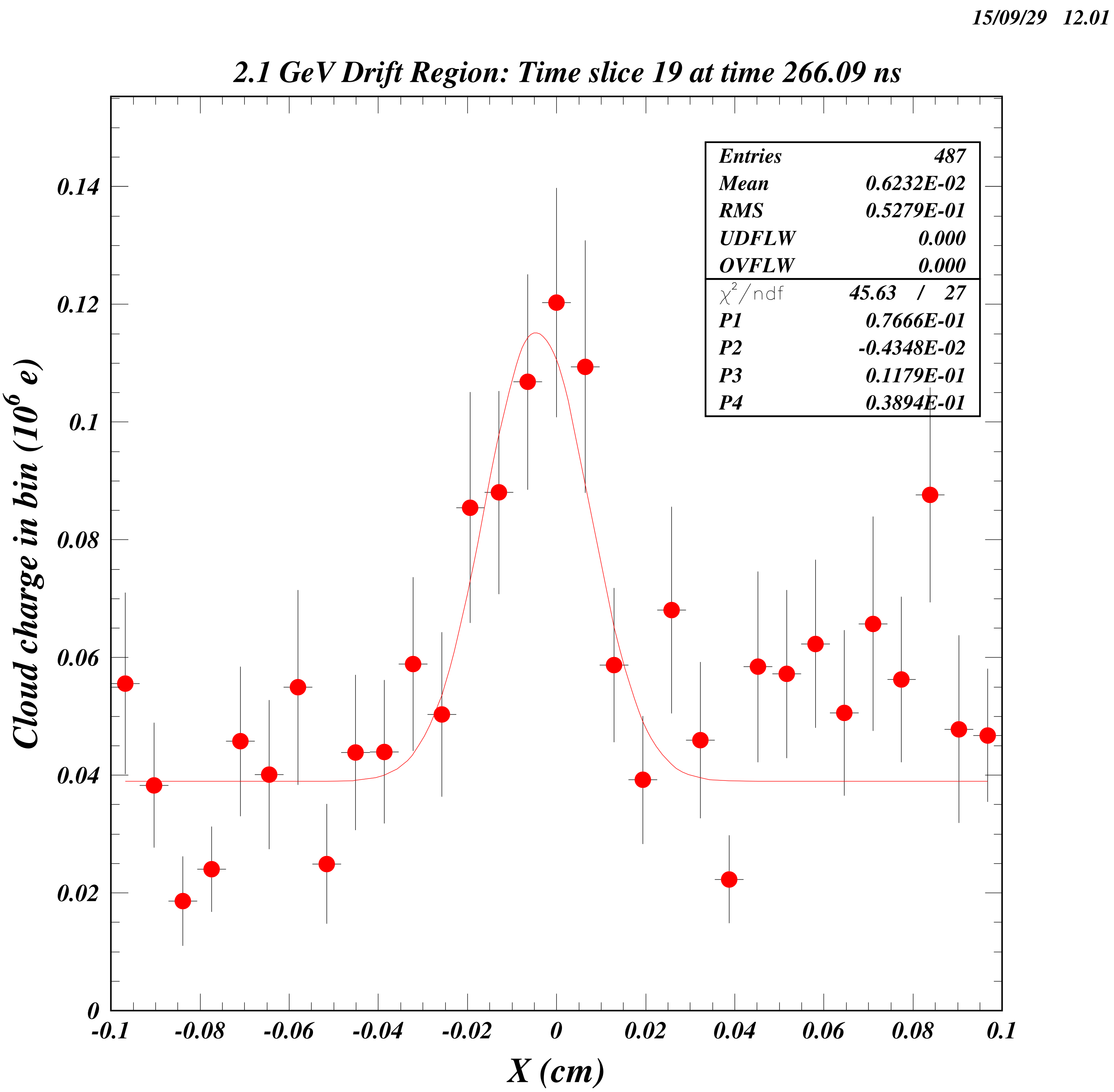
2.1 GeV Drift Region: Time slice 18 at time 266.07 ns
Entries 440
Mean -0.1460E-02
RMS 0.5651E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 144.2 / 27
P1 0.2599E-01
P2 0.4829E-01
P3 0.3487E-01
P4 0.2325E-01
0 0.02 0.04 0.06 0.08 0.1 0.12 0.14 0.16
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 18 at time 266.07 ns
Entries 440
Mean -0.1460E-02
RMS 0.5651E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 144.2 / 27
P1 0.2599E-01
P2 0.4829E-01
P3 0.3487E-01
P4 0.2325E-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



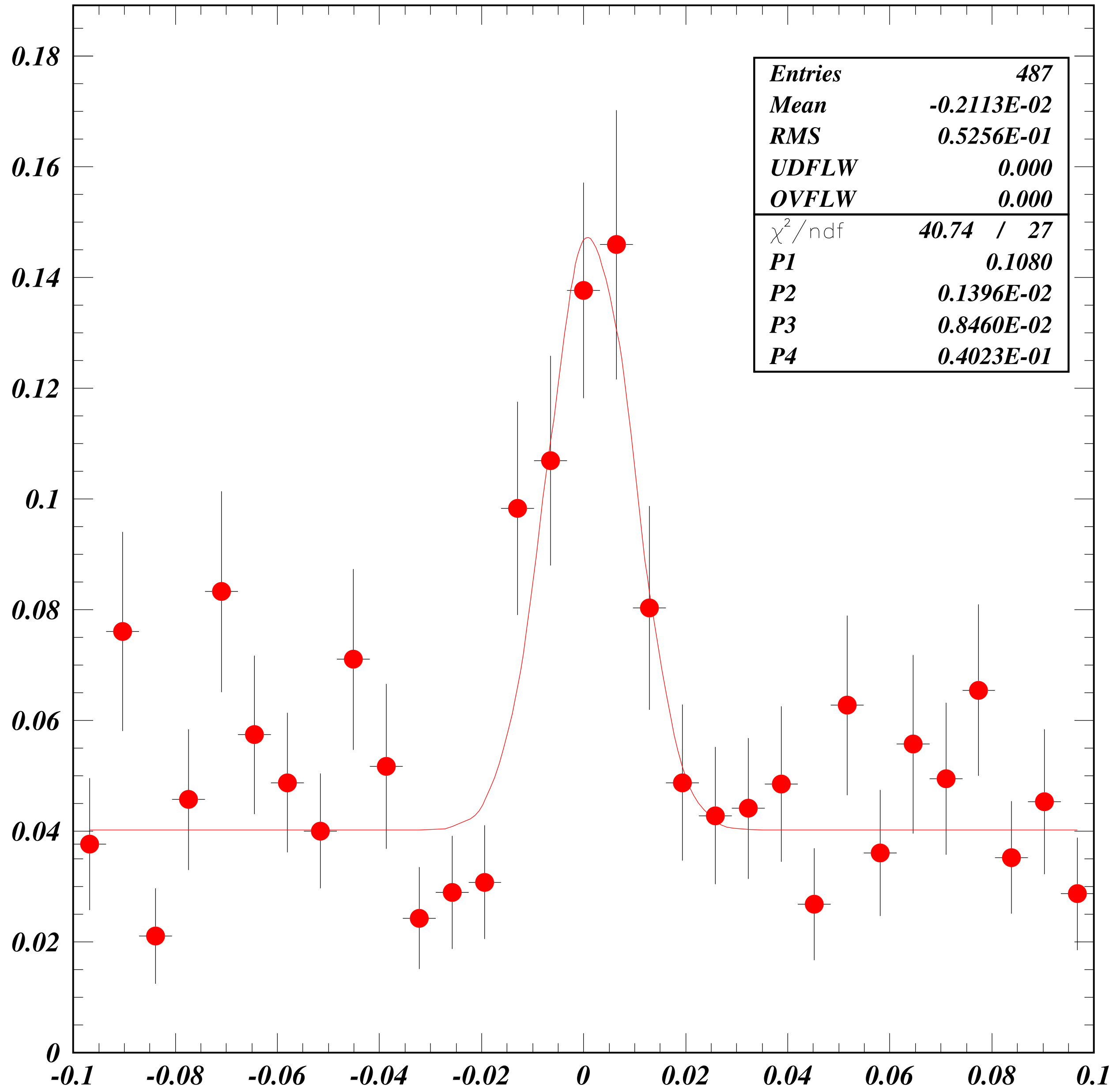
15/09/29 12.01
Snapshot after bunch 20 at time = 266.07 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.1 -0.08 -0.06 -0.04 -0.02 0 0.02 0.04 0.06 0.08 0.1
0.0225
0.02
0.0175
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
No energy cut: 0k macroparticles, 1 10^6 e-

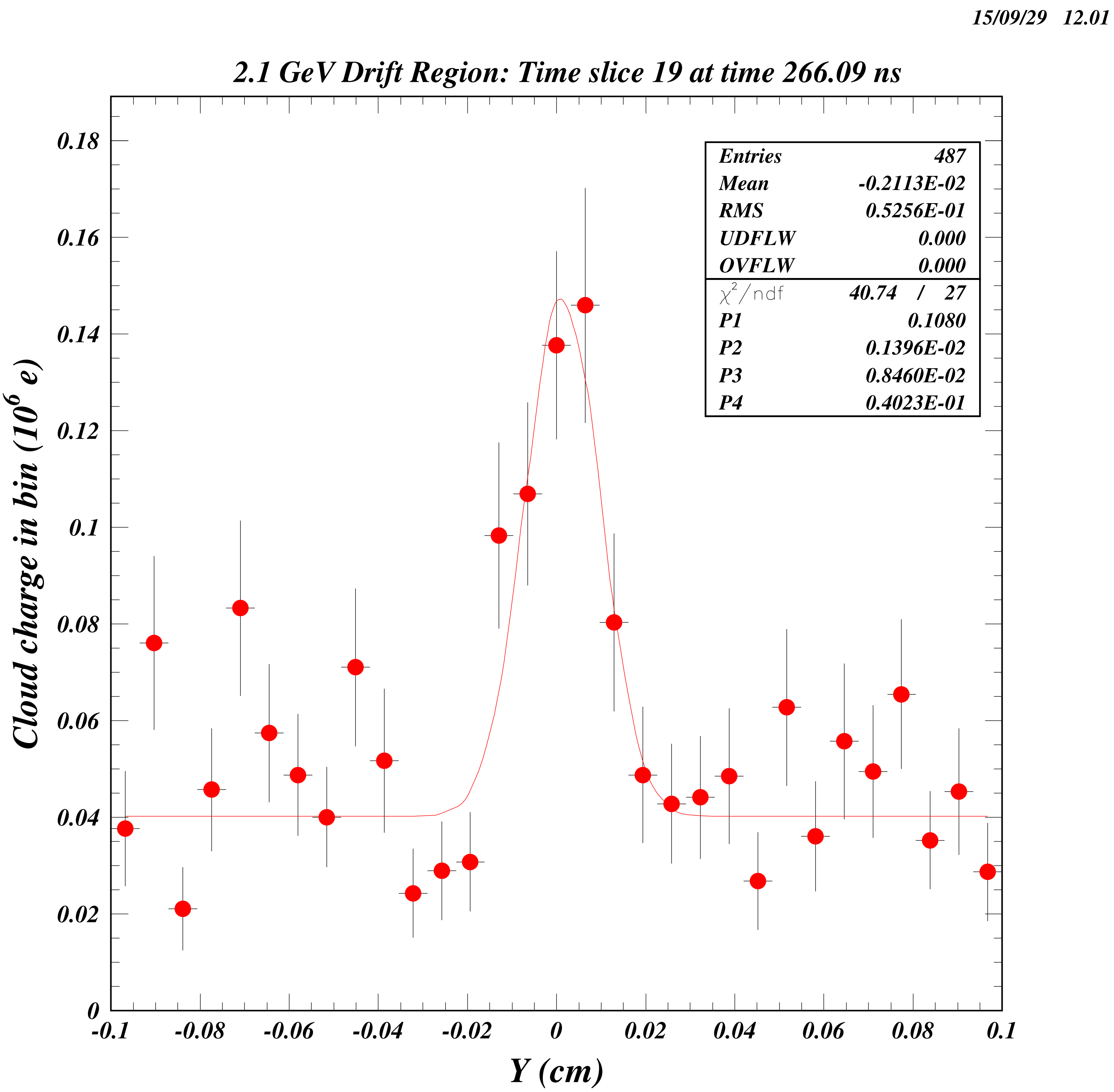

15/09/29 12.01
2.1 GeV Drift Region: Time slice 19 at time 266.09 ns
Entries 487
Mean 0.6232E-02
RMS 0.5279E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 45.63 / 27
P1 0.7666E-01
P2 -0.4348E-02
P3 0.1179E-01
P4 0.3894E-01
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 19 at time 266.09 ns
Entries 487
Mean 0.6232E-02
RMS 0.5279E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 45.63 / 27
P1 0.7666E-01
P2 -0.4348E-02
P3 0.1179E-01
P4 0.3894E-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
X (cm)

15/09/29 12.01

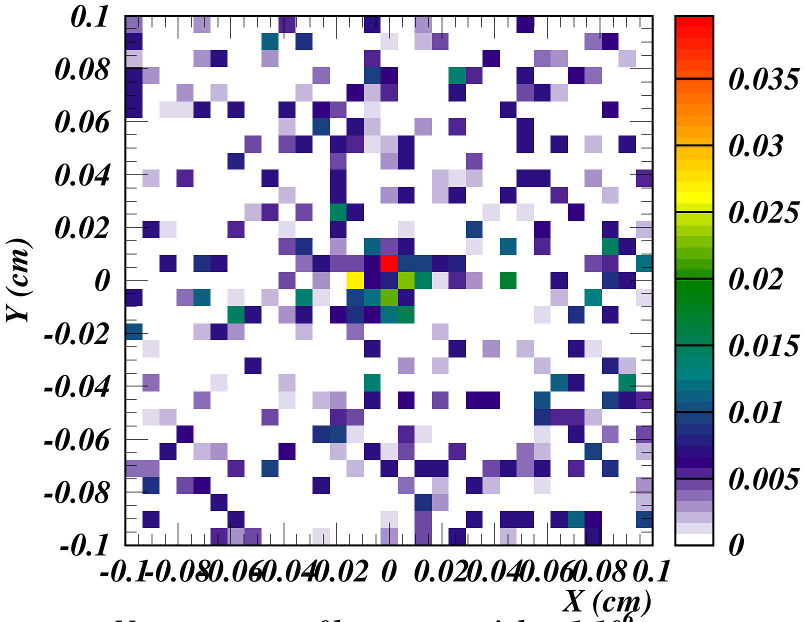
2.1 GeV Drift Region: Time slice 19 at time 266.09 ns




15/09/29 12.01
2.1 GeV Drift Region: Time slice 19 at time 266.09 ns
Entries 487
Mean -0.2113E-02
RMS 0.5256E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 40.74 / 27
P1 0.1080
P2 0.1396E-02
P3 0.8460E-02
P4 0.4023E-01
Cloud charge in bin (10^6 e)
Y (cm)
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

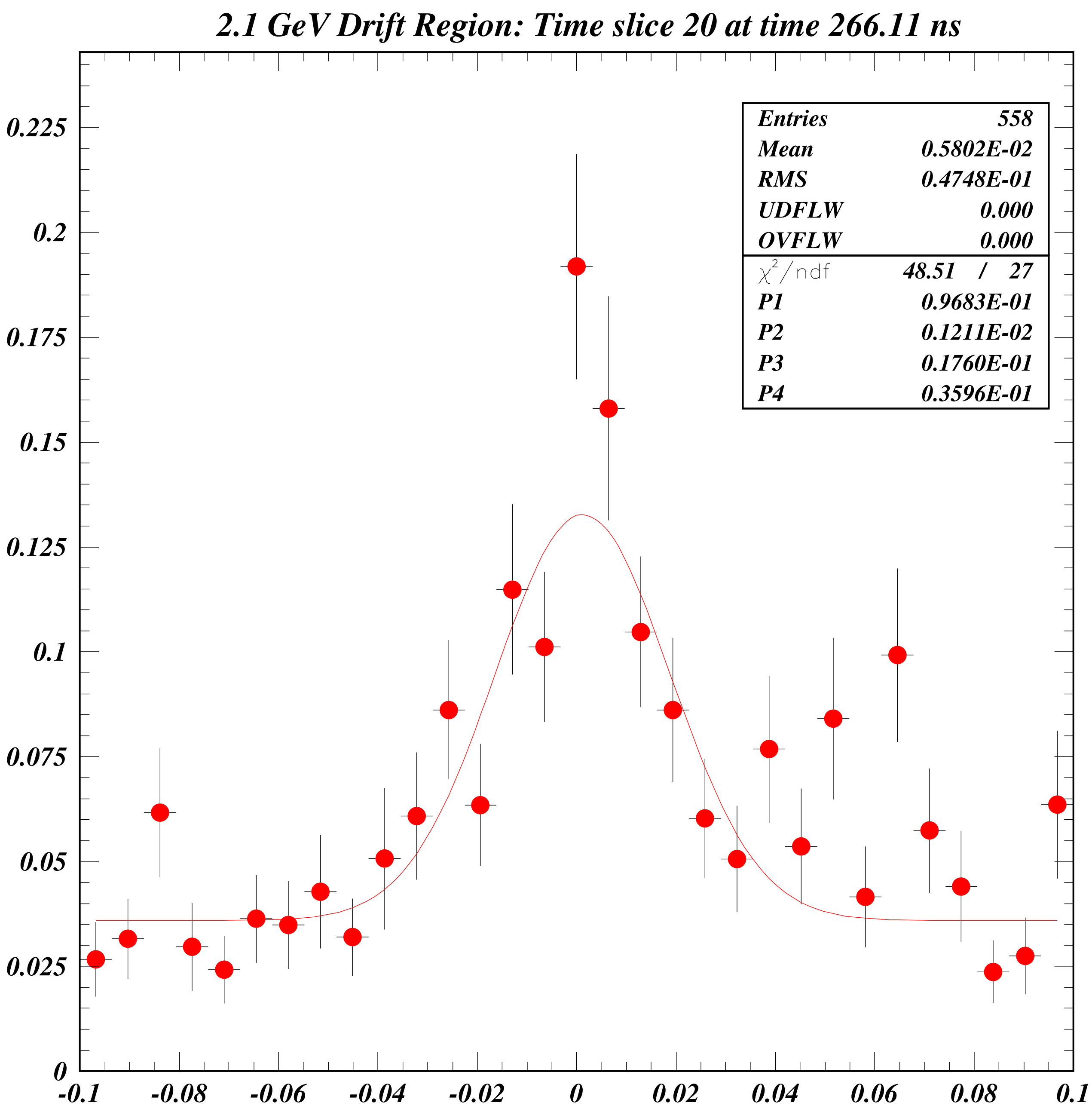
15/09/29 12.01

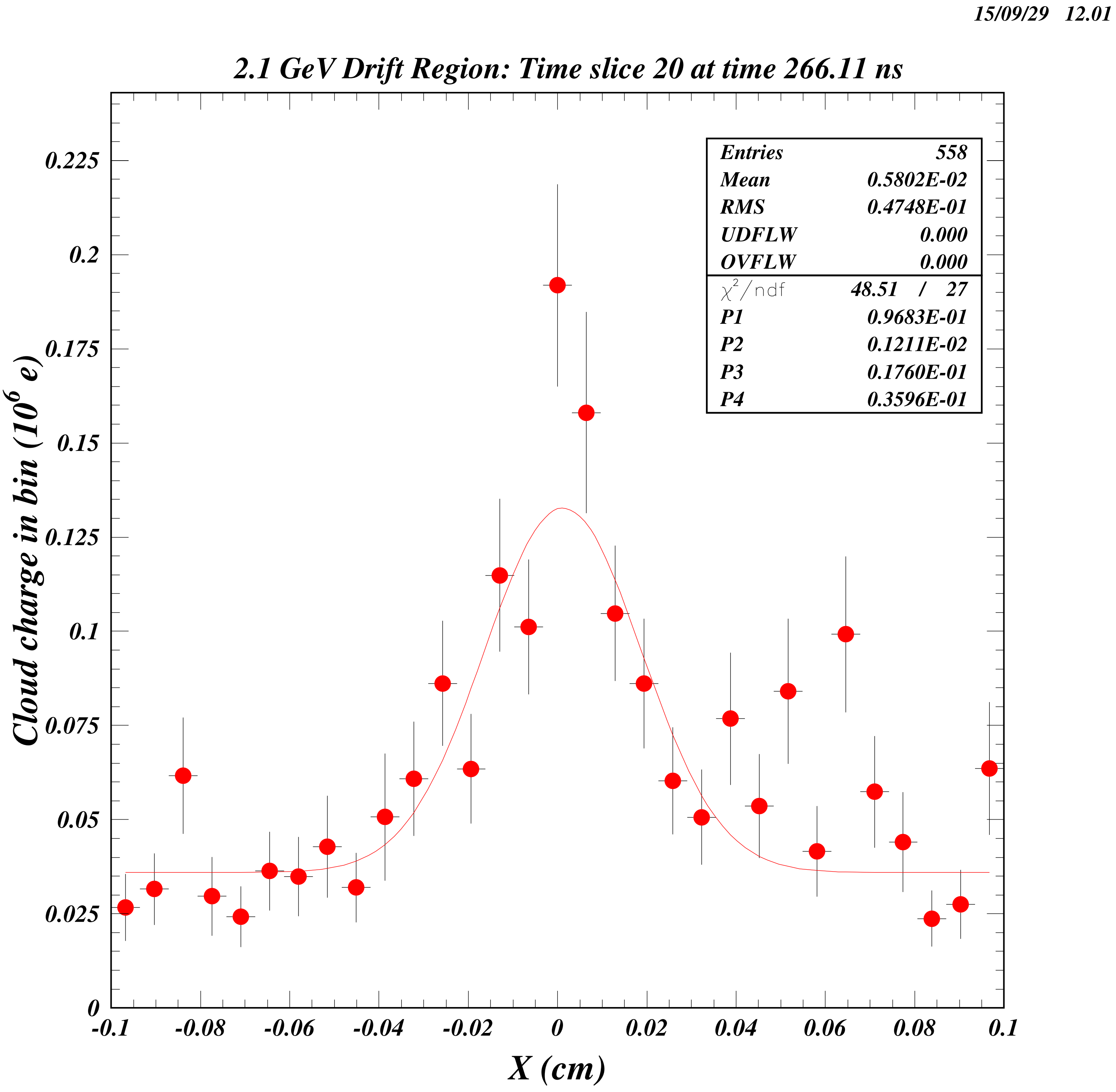
Snapshot after bunch 20 at time = 266.09 ns



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

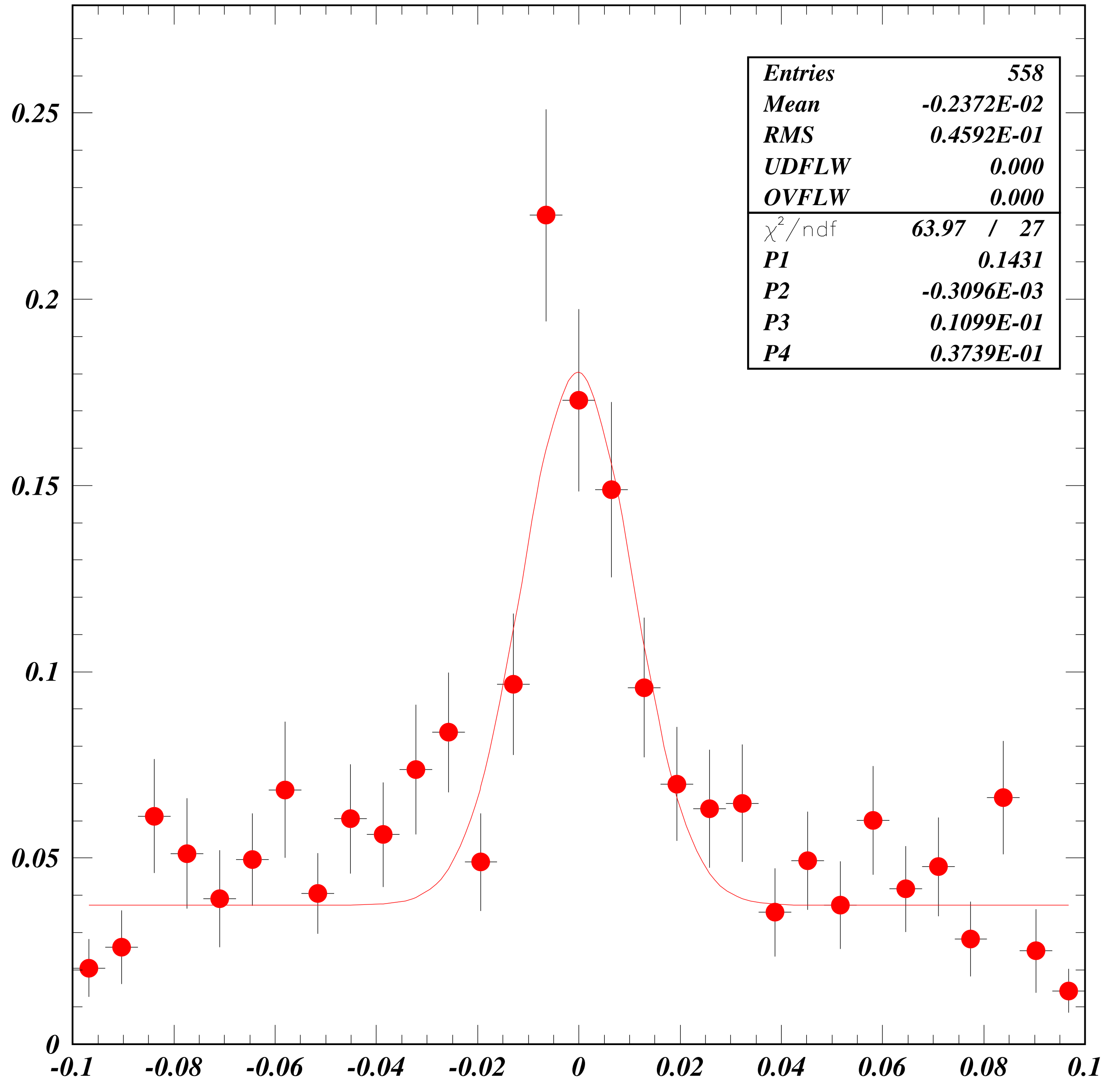
15/09/29 12.01

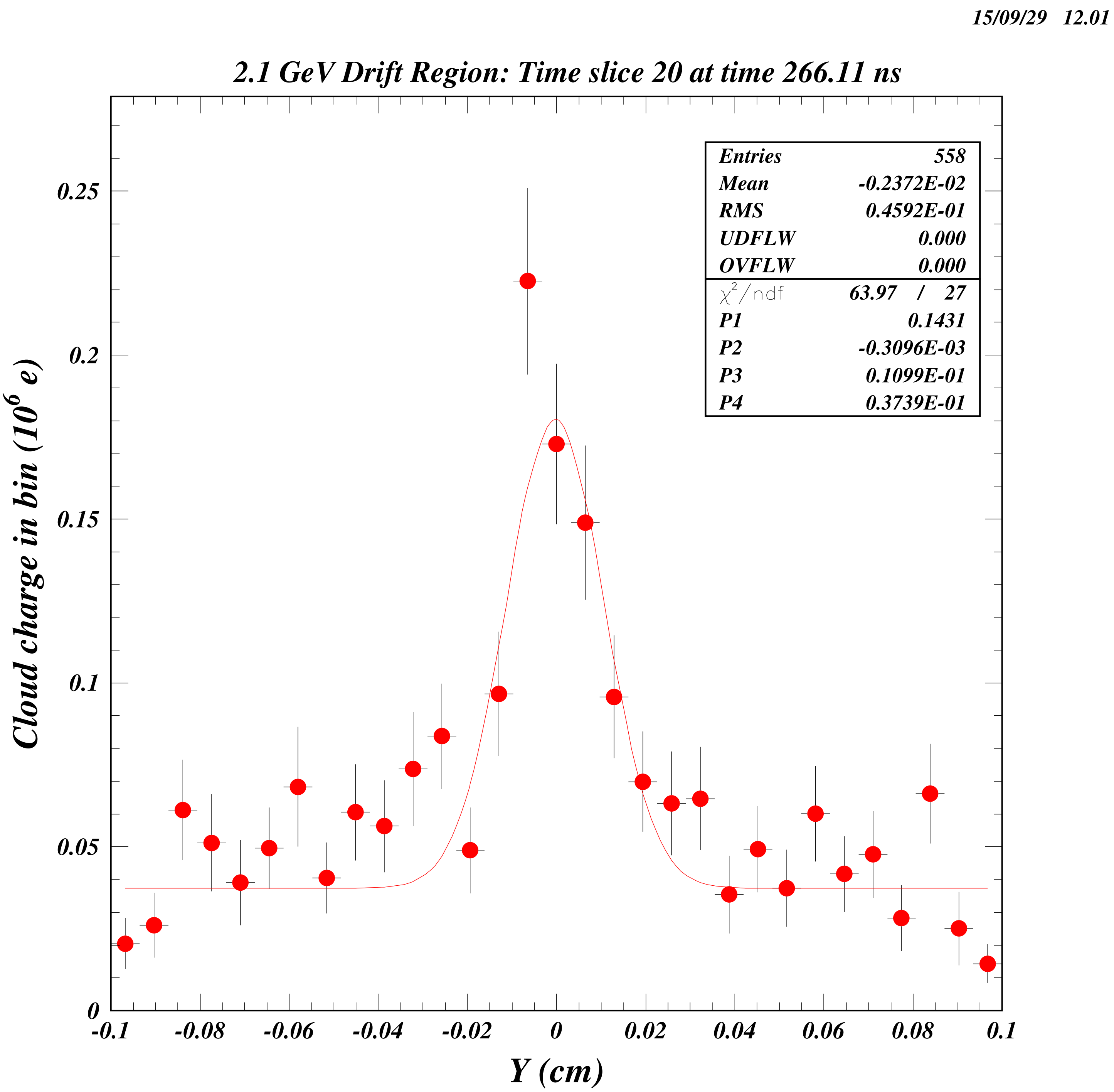

2.1 GeV Drift Region: Time slice 20 at time 266.11 ns
Entries 558
Mean 0.5802E-02
RMS 0.4748E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 48.51 / 27
P1 0.9683E-01
P2 0.1211E-02
P3 0.1760E-01
P4 0.3596E-01
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

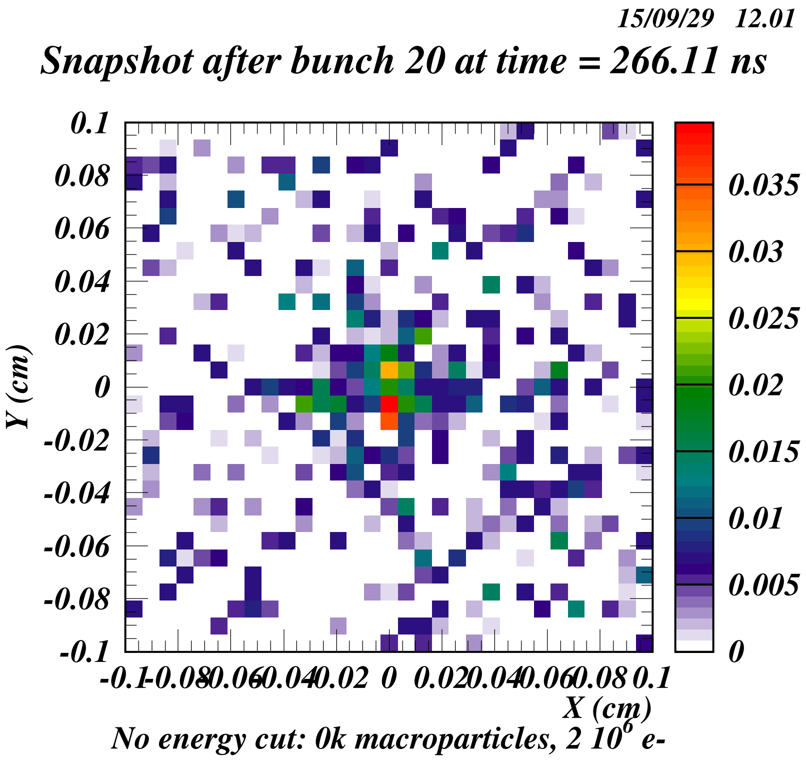

15/09/29 12.01
2.1 GeV Drift Region: Time slice 20 at time 266.11 ns
Entries 558
Mean 0.5802E-02
RMS 0.4748E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 48.51 / 27
P1 0.9683E-01
P2 0.1211E-02
P3 0.1760E-01
P4 0.3596E-01
Cloud charge in bin (10⁶ e)
X (cm)

15/09/29 12.01

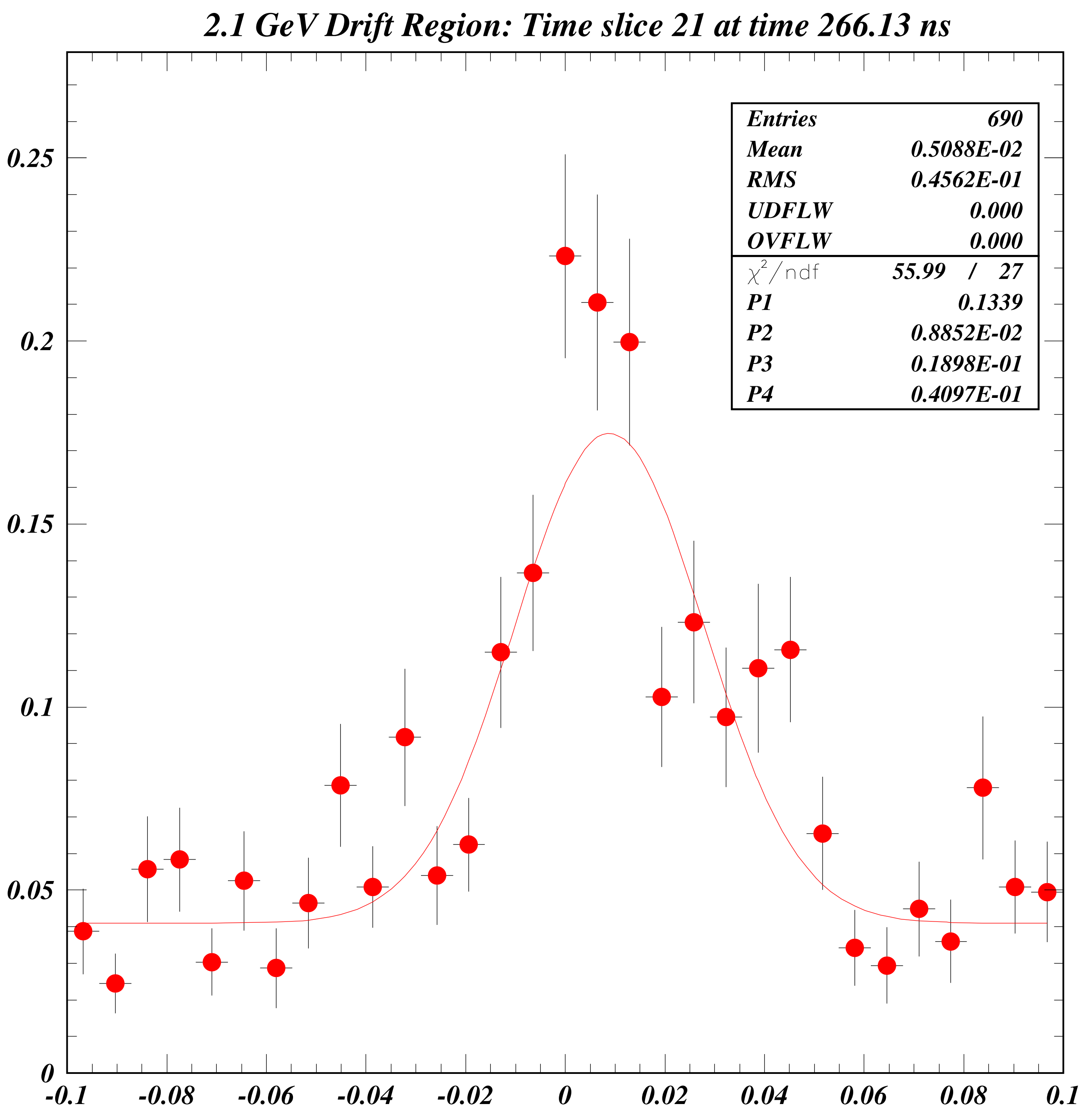
2.1 GeV Drift Region: Time slice 20 at time 266.11 ns

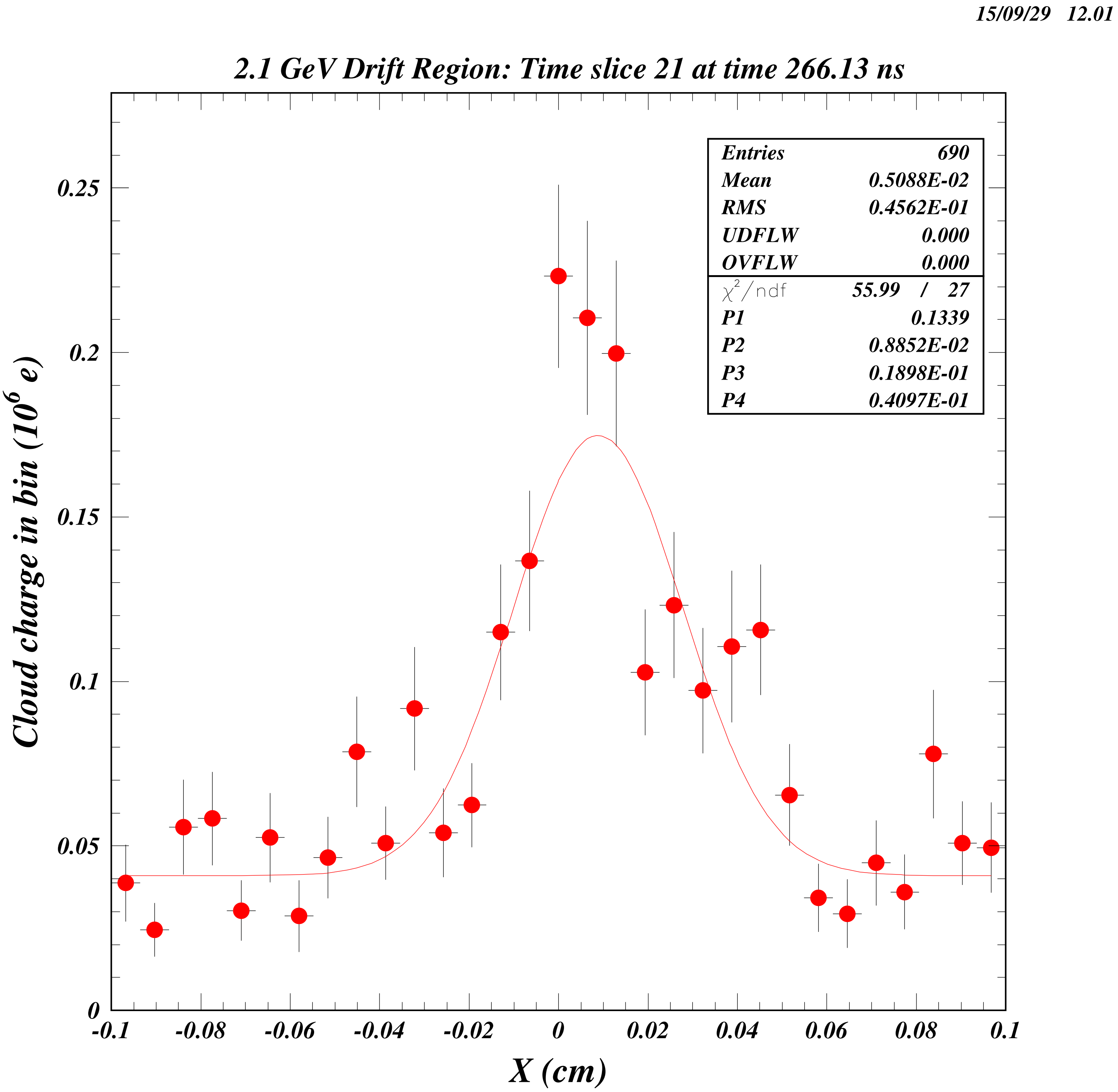



15/09/29 12.01
2.1 GeV Drift Region: Time slice 20 at time 266.11 ns
Entries 558
Mean -0.2372E-02
RMS 0.4592E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 63.97 / 27
P1 0.1431
P2 -0.3096E-03
P3 0.1099E-01
P4 0.3739E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
Snapshot after bunch 20 at time = 266.11 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
0.035
0.03
0.025
0.02
0.015
0.01
0.005
No energy cut: 0k macroparticles, 2 10^6 e-

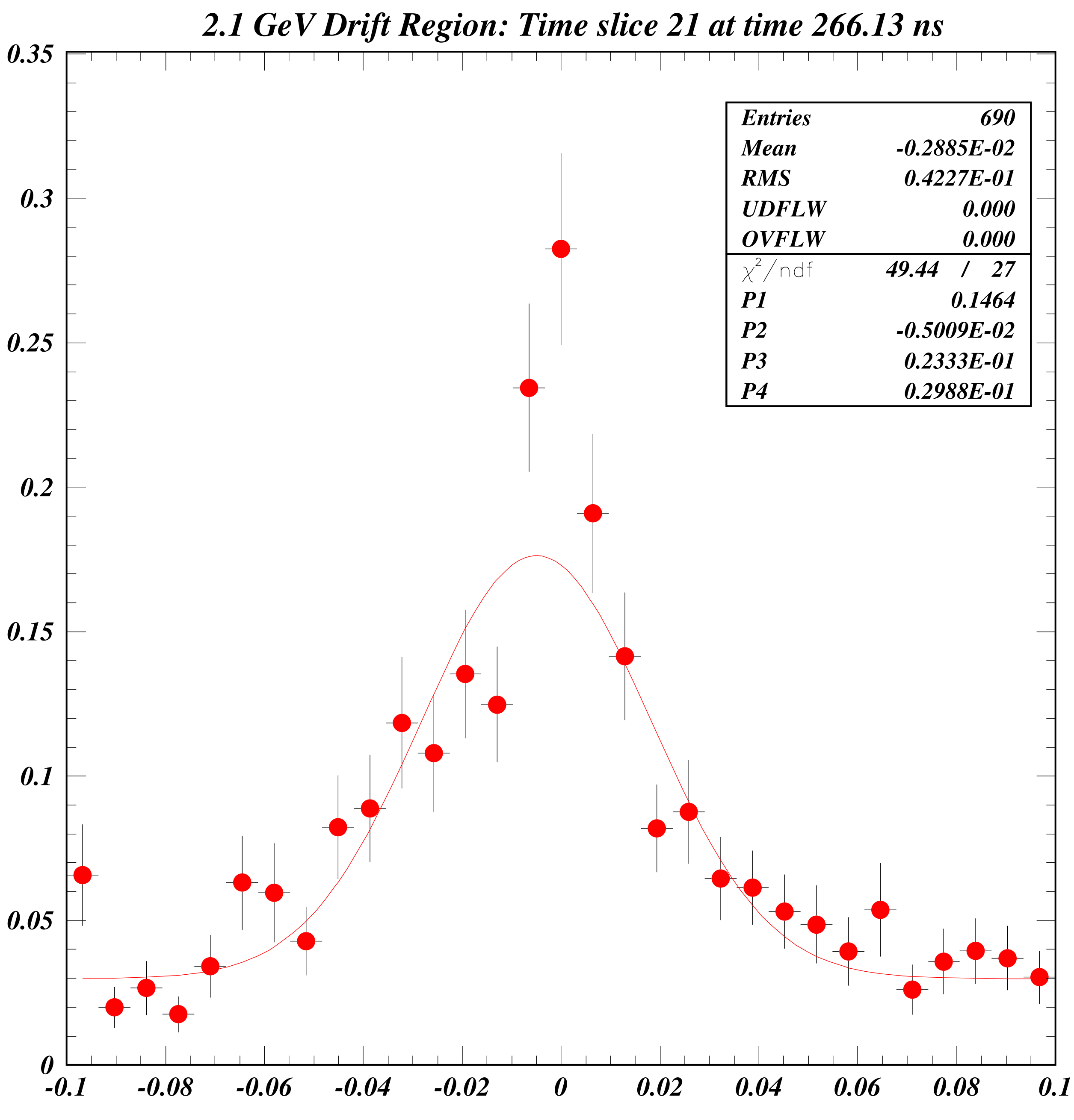
15/09/29   12.01


2.1 GeV Drift Region: Time slice 21 at time 266.13 ns
Entries 690
Mean 0.5088E-02
RMS 0.4562E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 55.99 / 27
P1 0.1339
P2 0.8852E-02
P3 0.1898E-01
P4 0.4097E-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

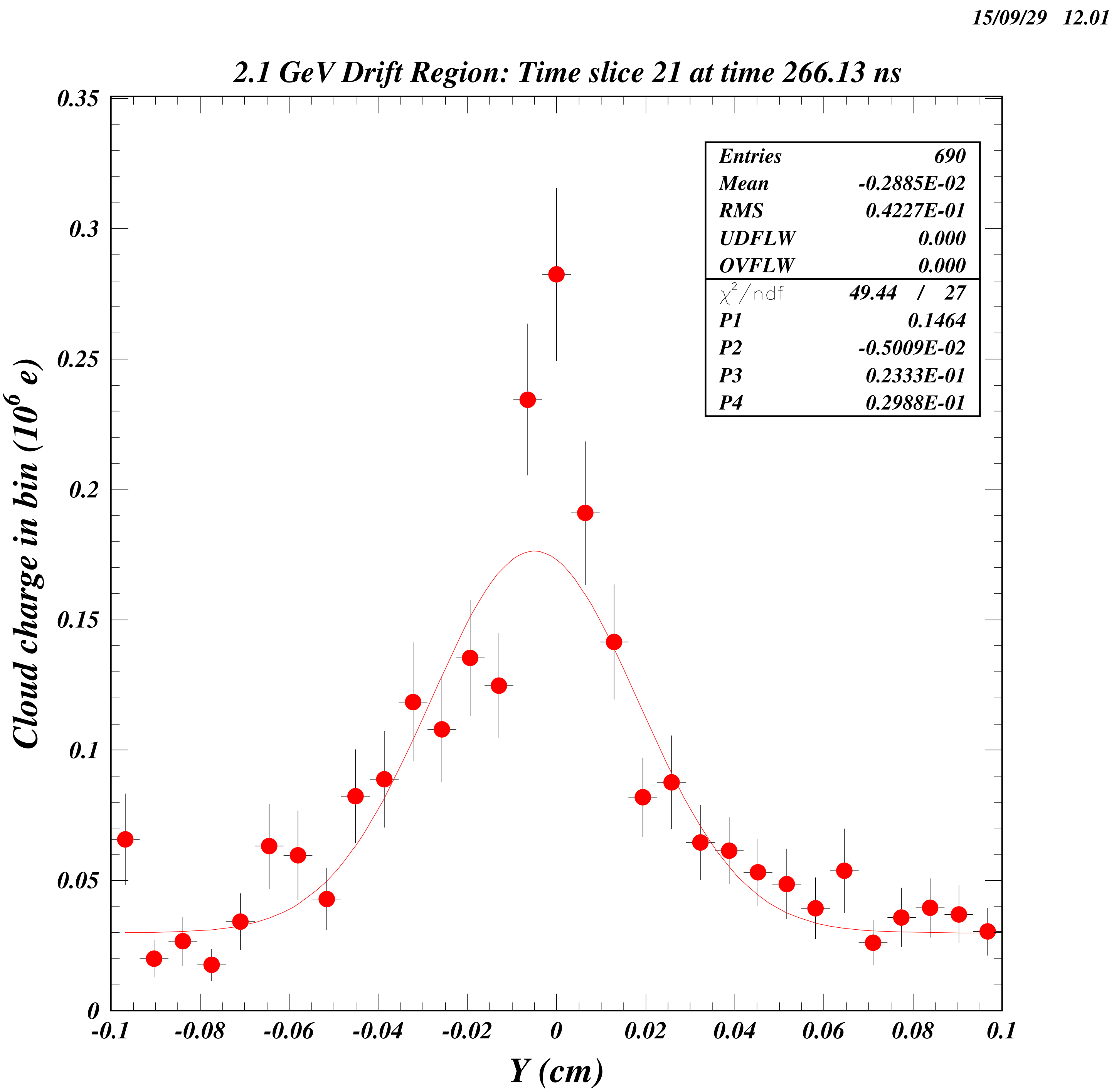


15/09/29 12.01
2.1 GeV Drift Region: Time slice 21 at time 266.13 ns
Entries 690
Mean 0.5088E-02
RMS 0.4562E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 55.99 / 27
P1 0.1339
P2 0.8852E-02
P3 0.1898E-01
P4 0.4097E-01
Cloud charge in bin (10⁶ e)
X (cm)

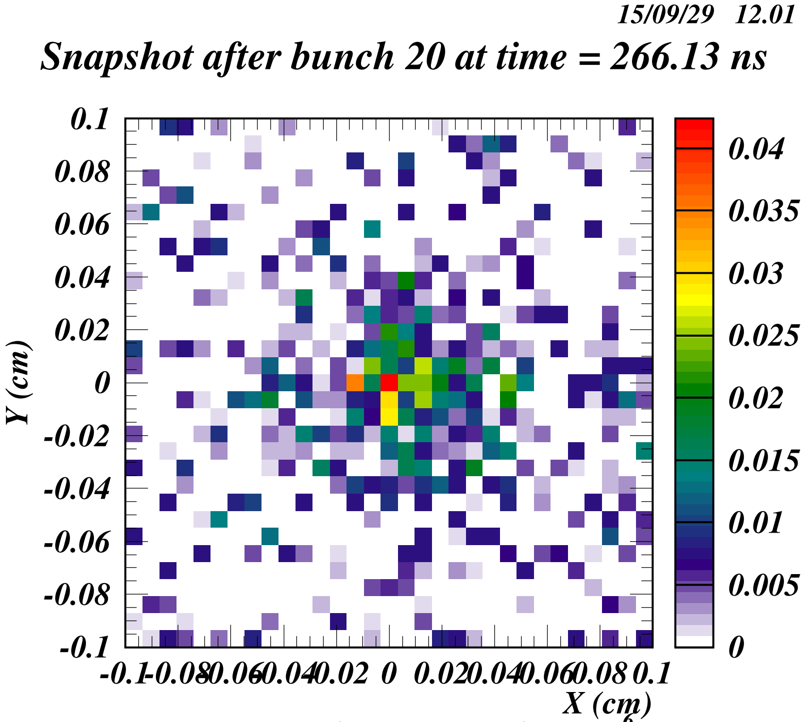
15/09/29 12.01



2.1 GeV Drift Region: Time slice 21 at time 266.13 ns
Entries 690
Mean -0.2885E-02
RMS 0.4227E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 49.44 / 27
P1 0.1464
P2 -0.5009E-02
P3 0.2333E-01
P4 0.2988E-01
0.35
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

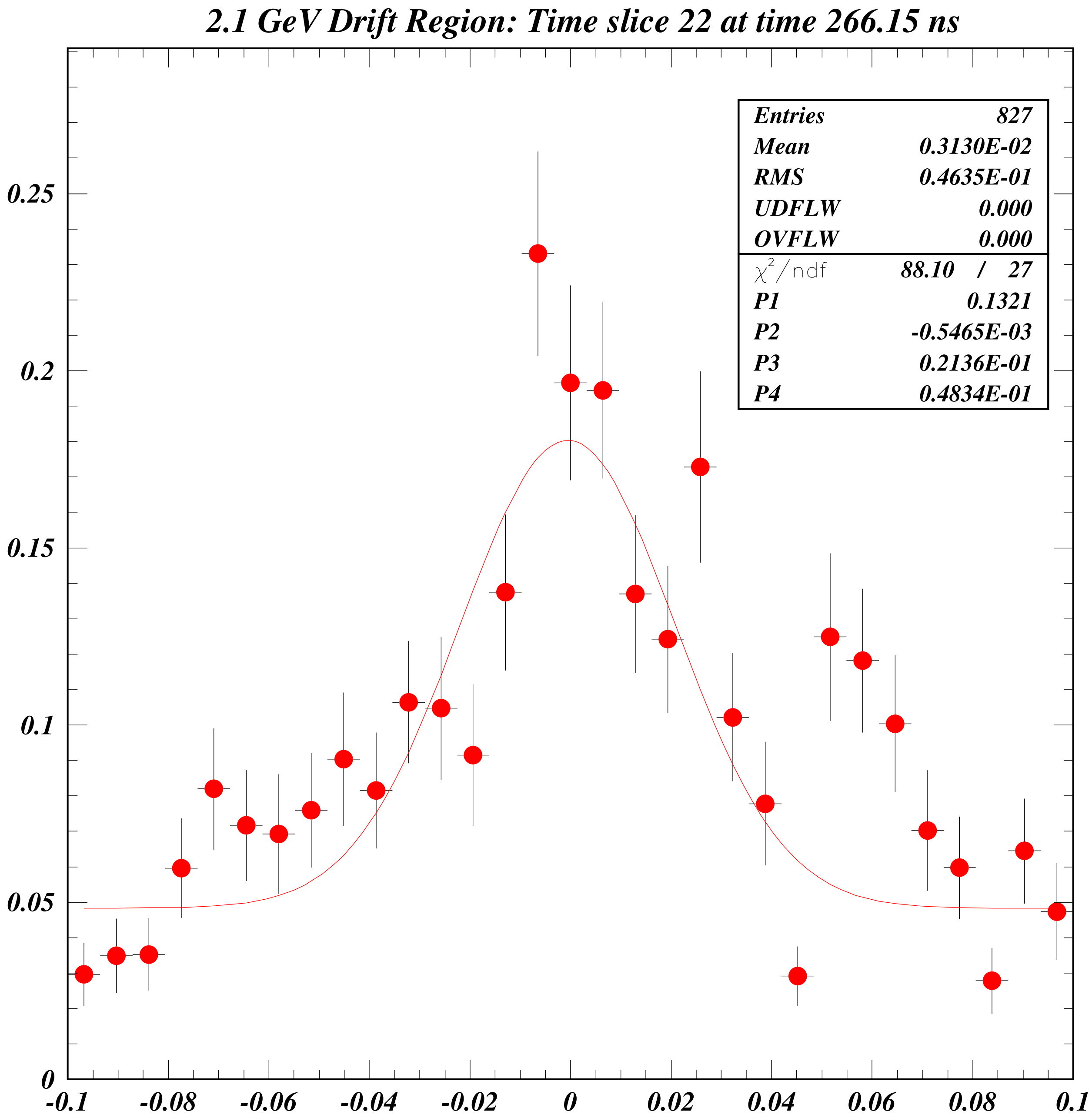


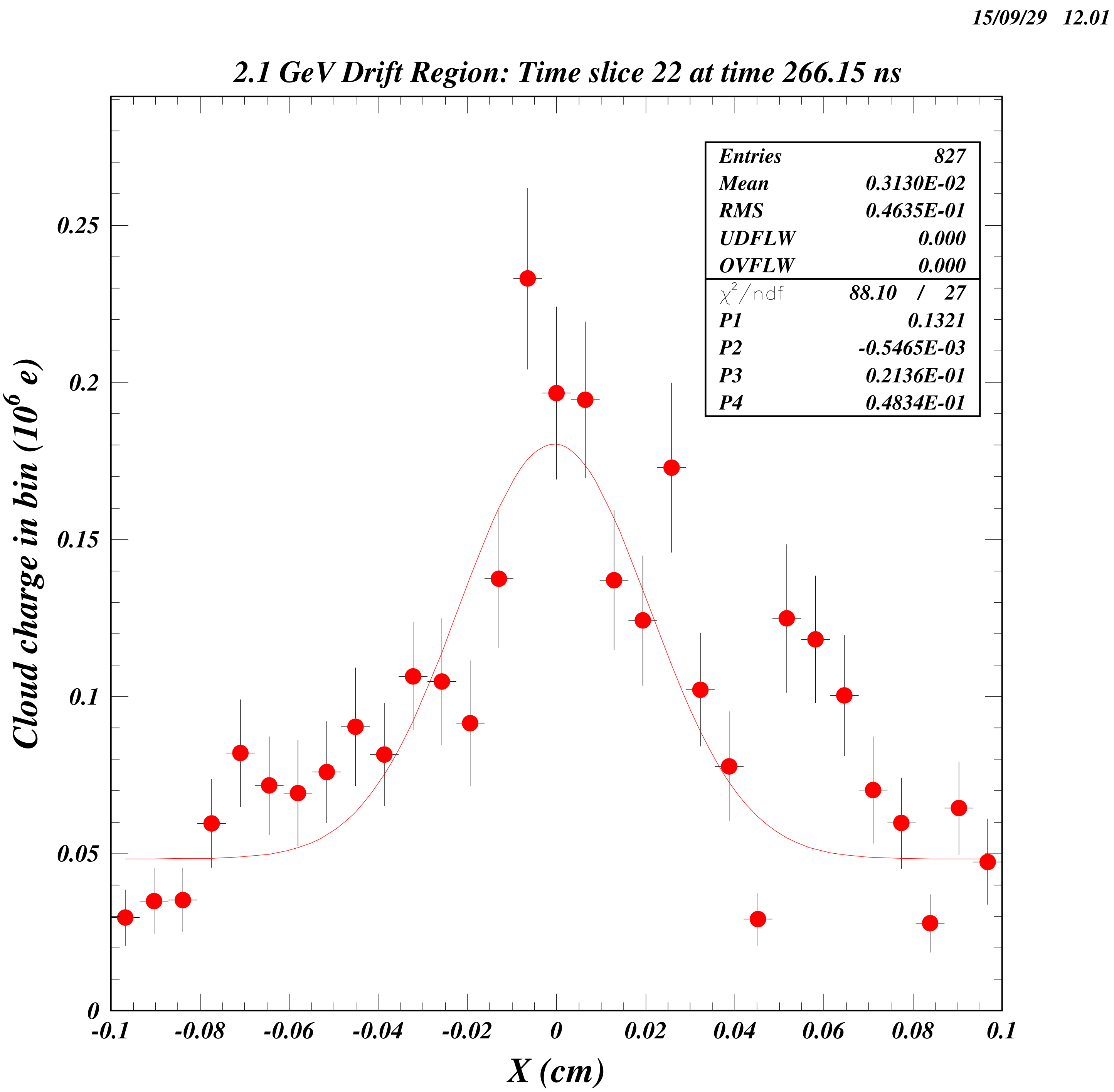
15/09/29 12.01
2.1 GeV Drift Region: Time slice 21 at time 266.13 ns
Entries 690
Mean -0.2885E-02
RMS 0.4227E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 49.44 / 27
P1 0.1464
P2 -0.5009E-02
P3 0.2333E-01
P4 0.2988E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



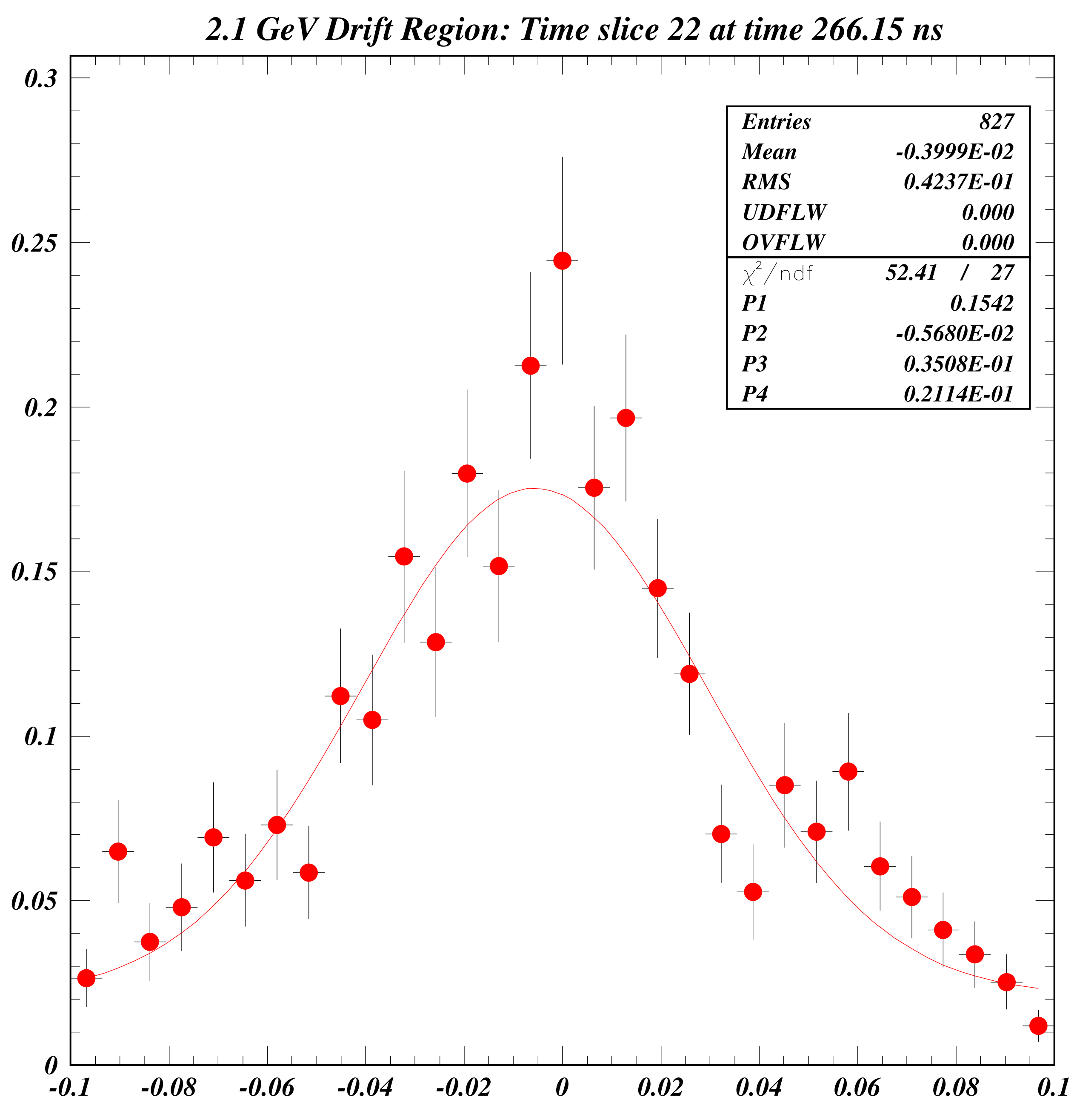
No energy cut: 0k macroparticles, 2 10^6 e-

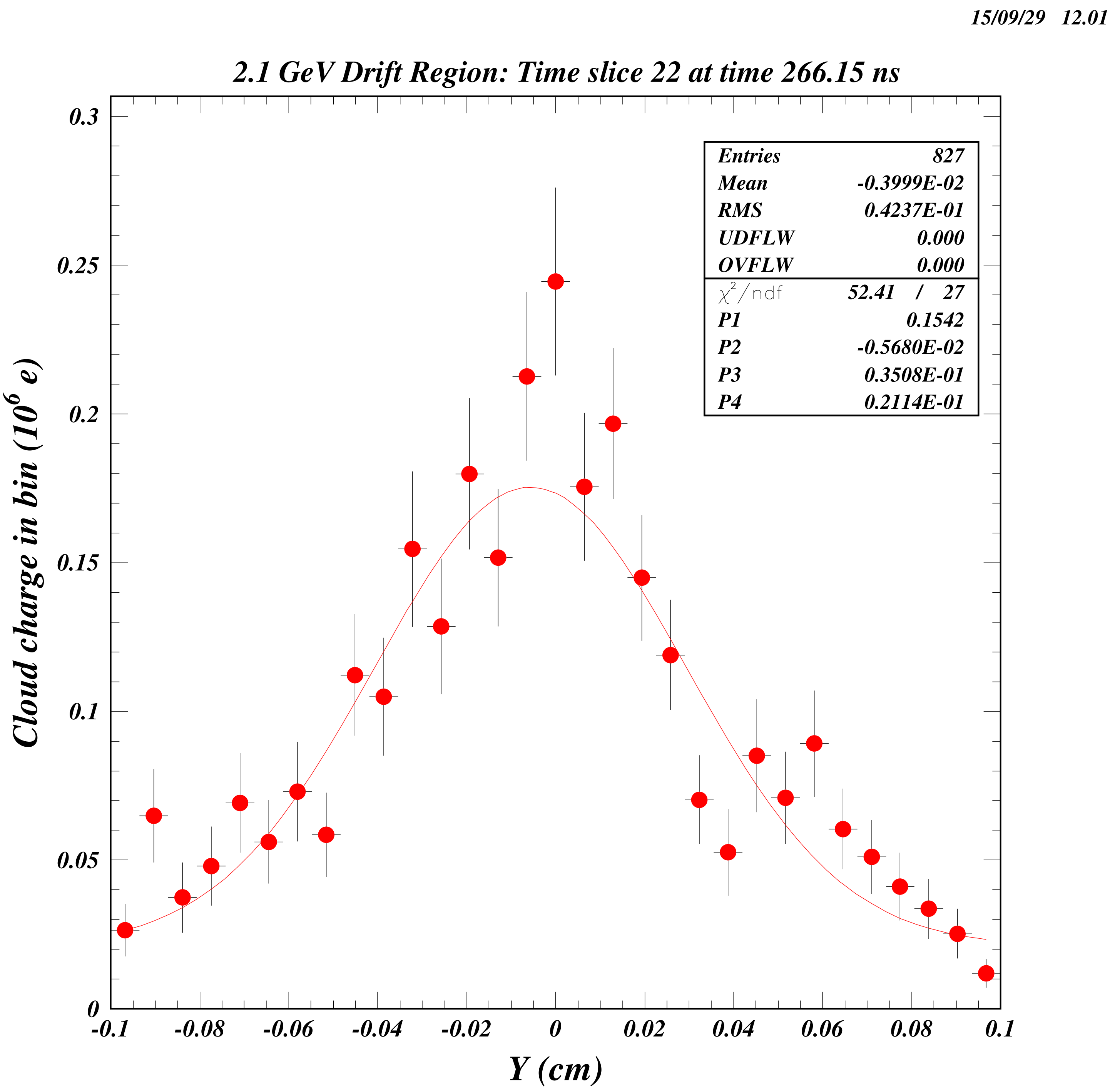
15/09/29   12.01

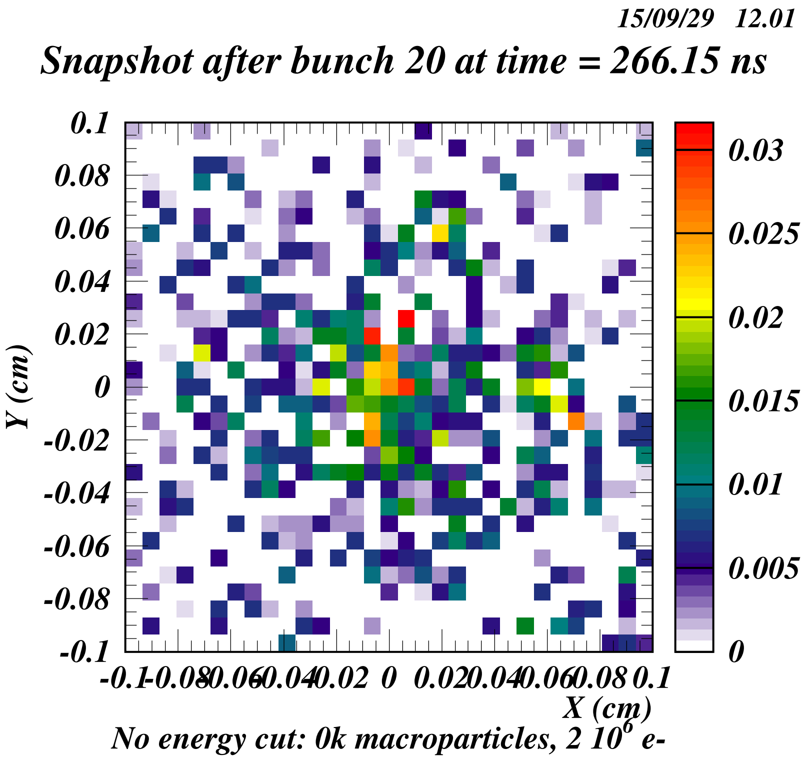

2.1 GeV Drift Region: Time slice 22 at time 266.15 ns
Entries 827
Mean 0.3130E-02
RMS 0.4635E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 88.10 / 27
P1 0.1321
P2 -0.5465E-03
P3 0.2136E-01
P4 0.4834E-01
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1



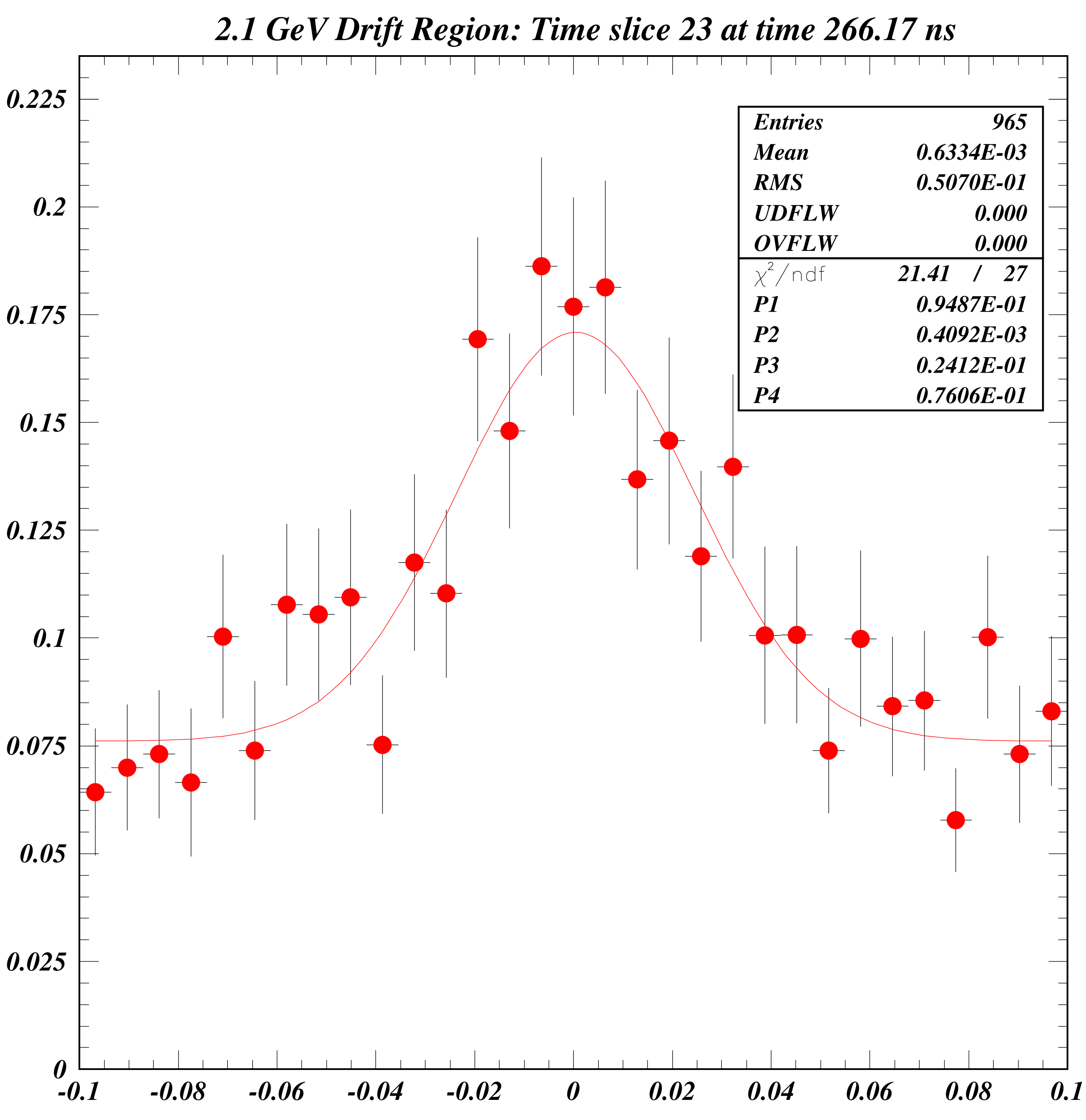
15/09/29 12.01
2.1 GeV Drift Region: Time slice 22 at time 266.15 ns
Entries 827
Mean 0.3130E-02
RMS 0.4635E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 88.10 / 27
P1 0.1321
P2 -0.5465E-03
P3 0.2136E-01
P4 0.4834E-01
Cloud charge in bin (10^6 e)
X (cm)
0
0.05
0.1
0.15
0.2
0.25
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


2.1 GeV Drift Region: Time slice 22 at time 266.15 ns
Entries 827
Mean -0.3999E-02
RMS 0.4237E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 52.41 / 27
P1 0.1542
P2 -0.5680E-02
P3 0.3508E-01
P4 0.2114E-01
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

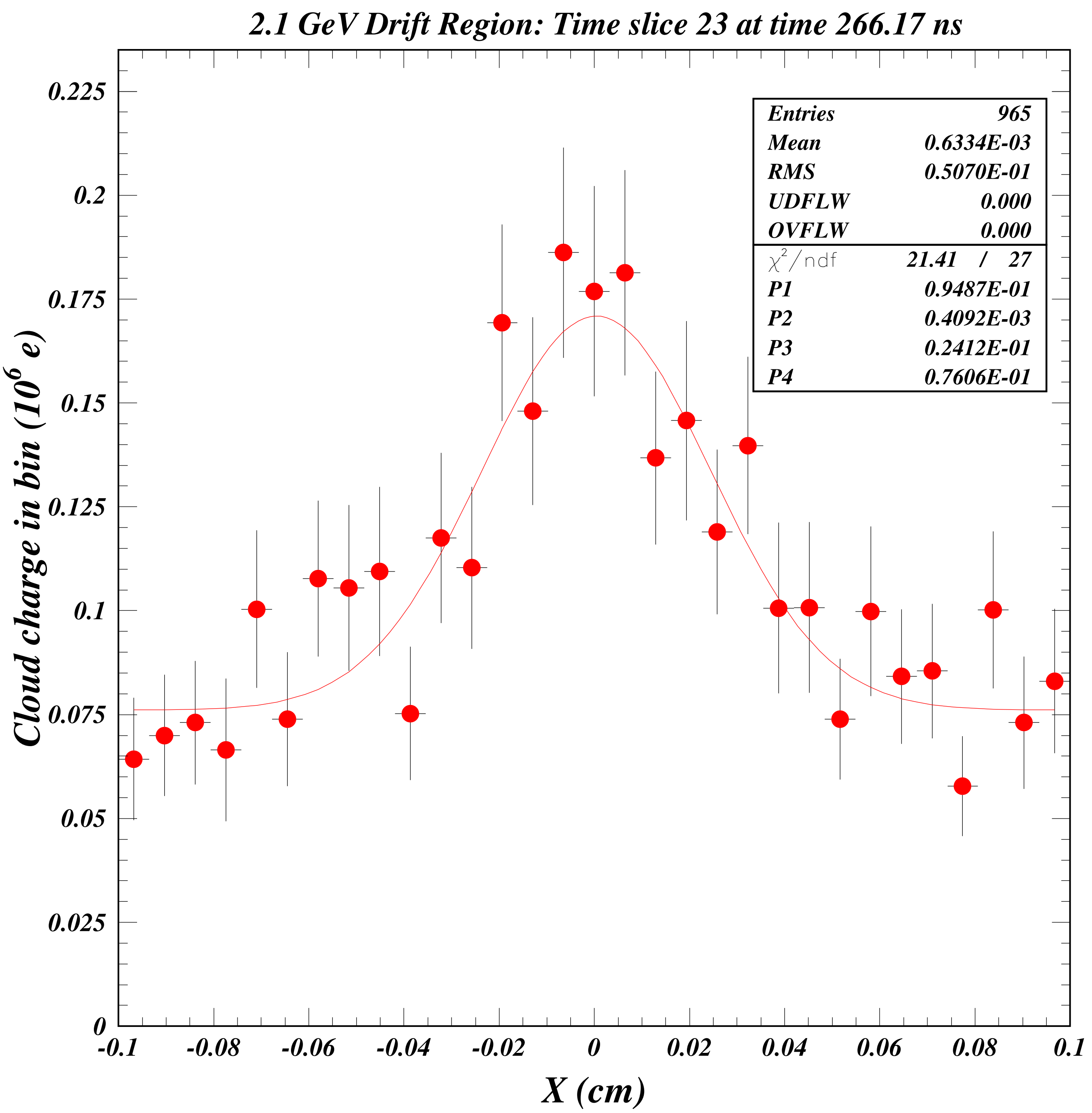

15/09/29 12.01
2.1 GeV Drift Region: Time slice 22 at time 266.15 ns
Entries 827
Mean -0.3999E-02
RMS 0.4237E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 52.41 / 27
P1 0.1542
P2 -0.5680E-02
P3 0.3508E-01
P4 0.2114E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
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
0.03
0.025
0.02
0.015
0.01
0.005
No energy cut: 0k macroparticles, 2 10^6 e-

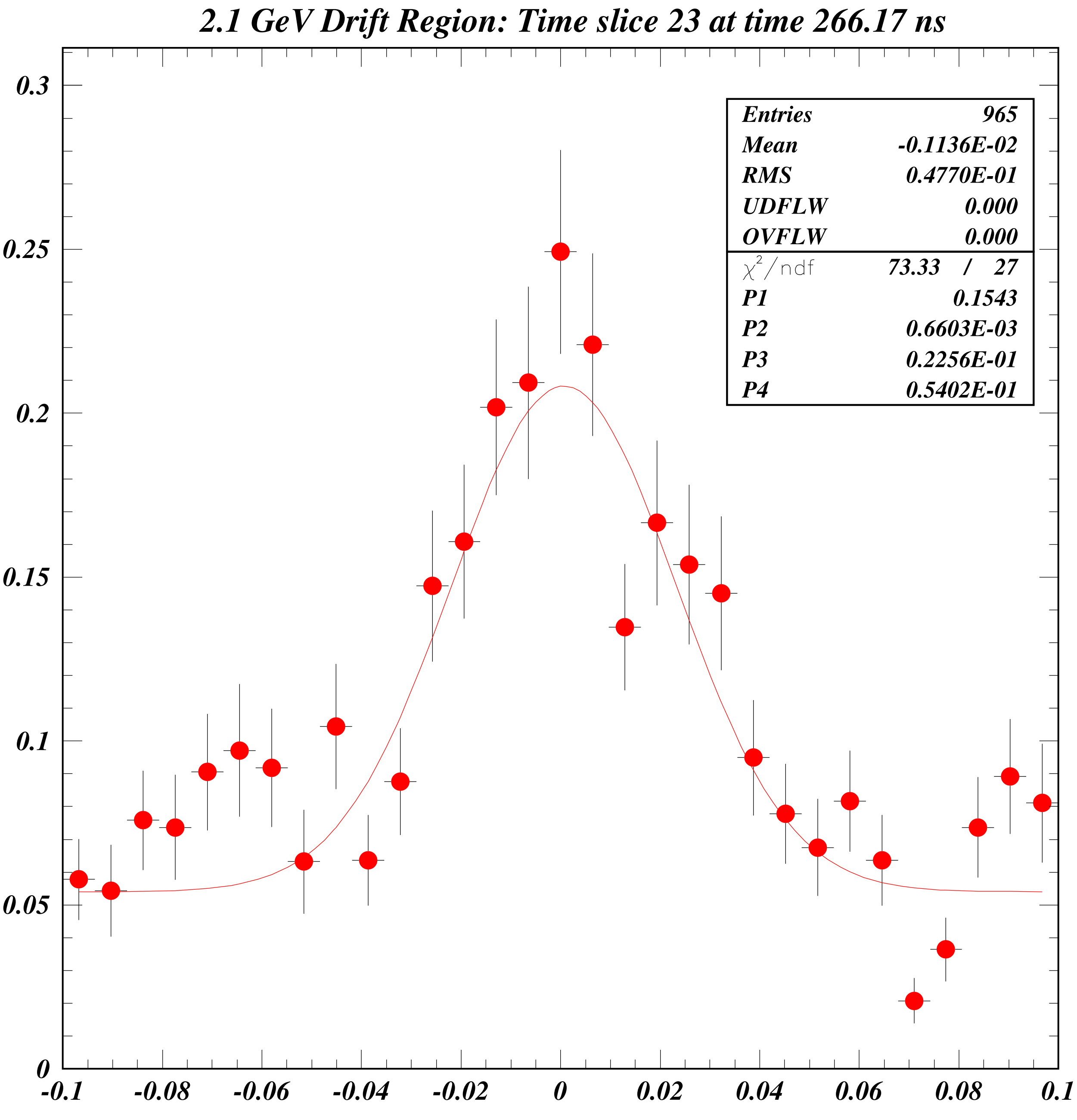
15/09/29 12.01


2.1 GeV Drift Region: Time slice 23 at time 266.17 ns
Entries 965
Mean 0.6334E-03
RMS 0.5070E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 21.41 / 27
P1 0.9487E-01
P2 0.4092E-03
P3 0.2412E-01
P4 0.7606E-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

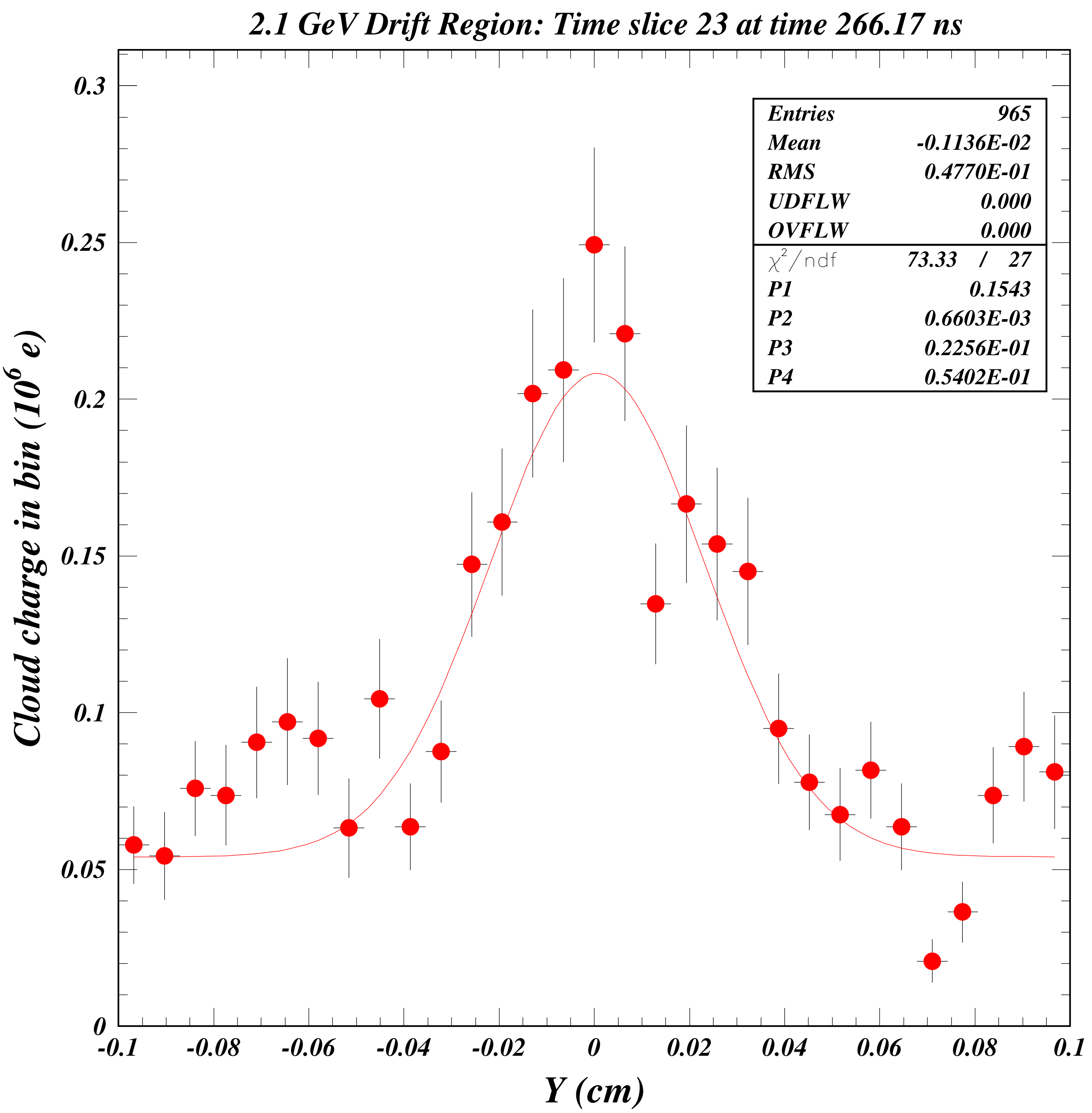
15/09/29 12.01


2.1 GeV Drift Region: Time slice 23 at time 266.17 ns
Entries 965
Mean 0.6334E-03
RMS 0.5070E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 21.41 / 27
P1 0.9487E-01
P2 0.4092E-03
P3 0.2412E-01
P4 0.7606E-01
Cloud charge in bin (10⁶ 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 12.01

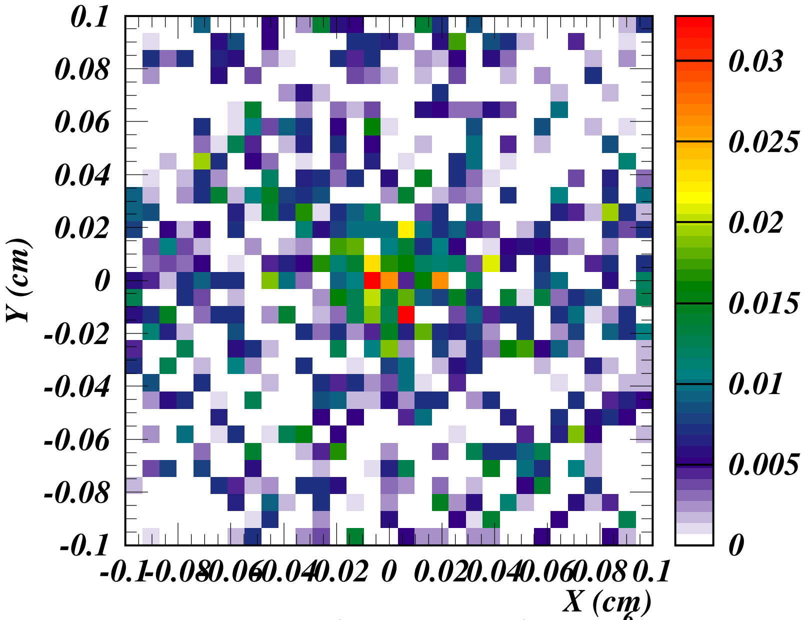

2.1 GeV Drift Region: Time slice 23 at time 266.17 ns
Entries 965
Mean -0.1136E-02
RMS 0.4770E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 73.33 / 27
P1 0.1543
P2 0.6603E-03
P3 0.2256E-01
P4 0.5402E-01
0
0.05
0.1
0.15
0.2
0.25
0.3
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01


2.1 GeV Drift Region: Time slice 23 at time 266.17 ns
Entries 965
Mean -0.1136E-02
RMS 0.4770E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 73.33 / 27
P1 0.1543
P2 0.6603E-03
P3 0.2256E-01
P4 0.5402E-01
Cloud charge in bin (10^6 e)
Y (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

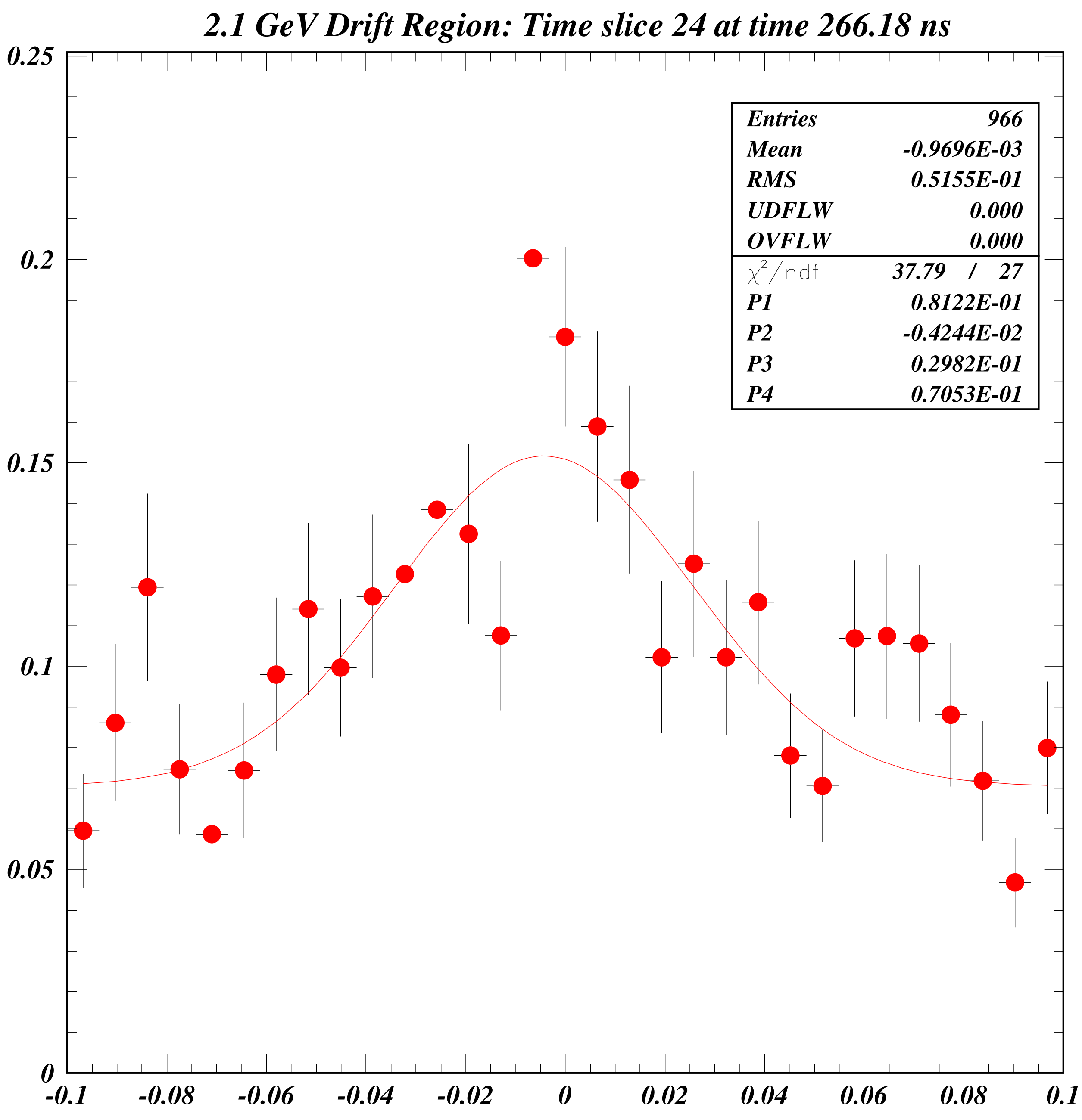
15/09/29 12.01

Snapshot after bunch 20 at time = 266.17 ns

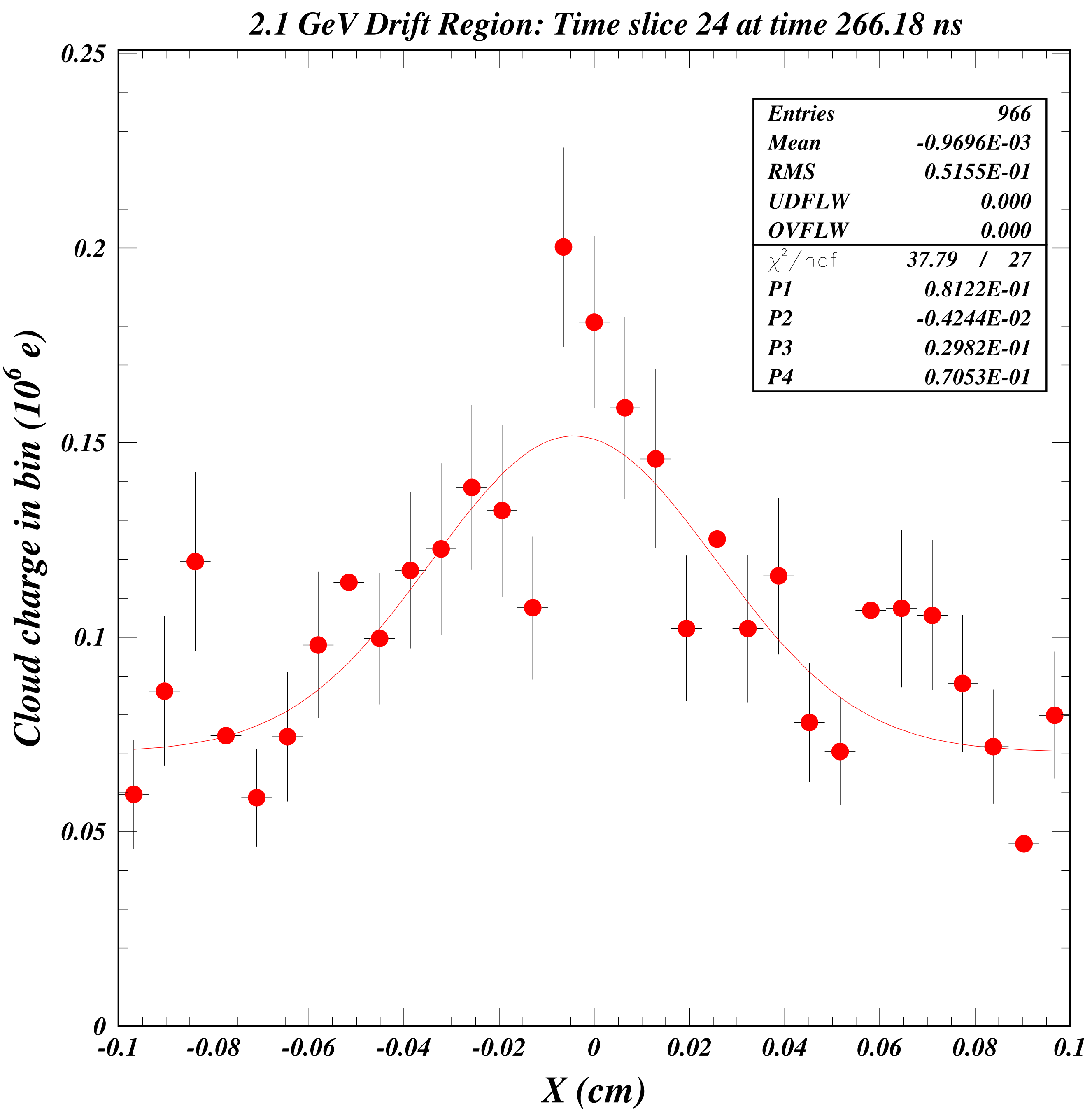


No energy cut: 0k macroparticles, 3 10^6 e-

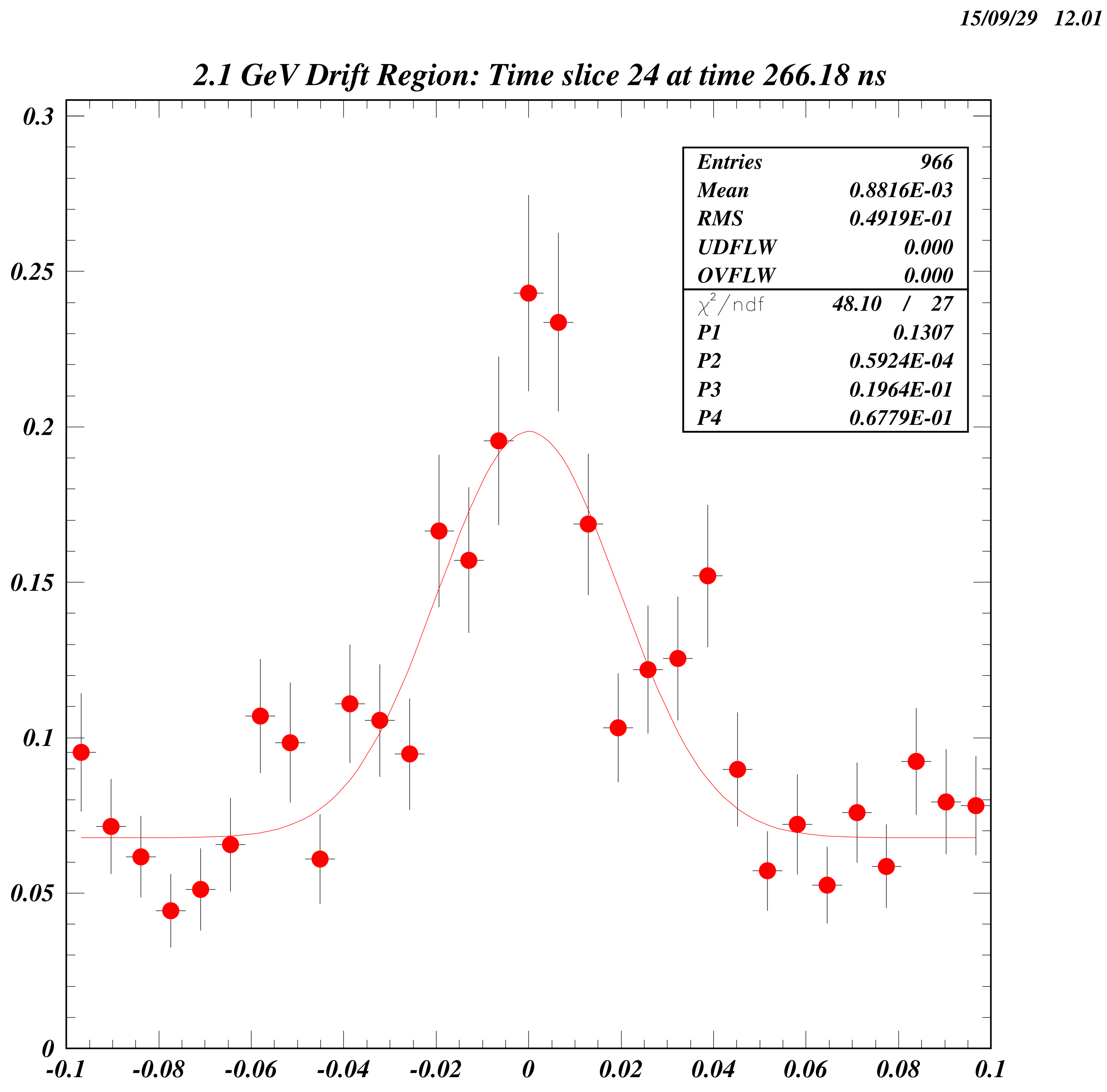
15/09/29 12.01

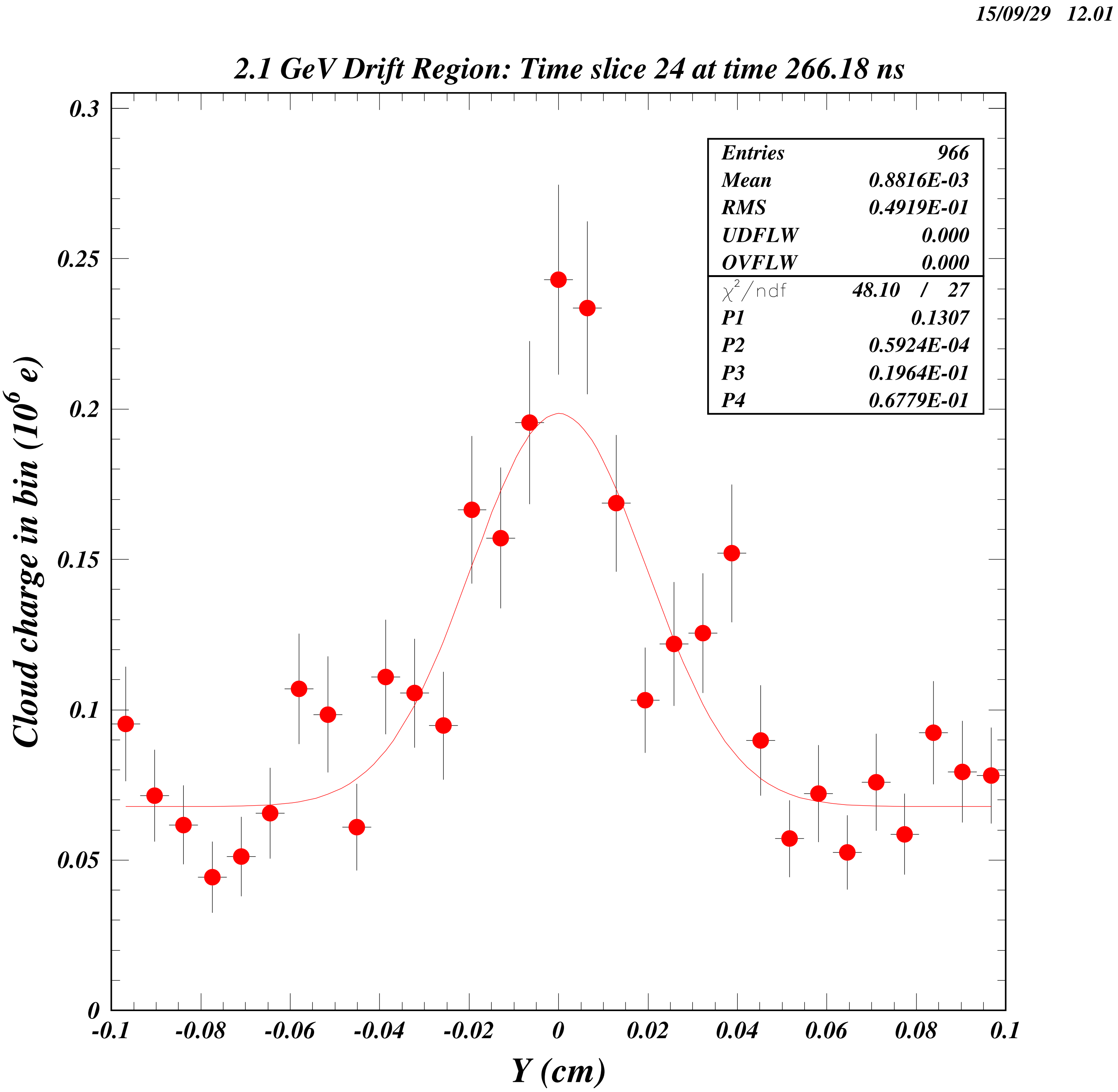

2.1 GeV Drift Region: Time slice 24 at time 266.18 ns
Entries 966
Mean -0.9696E-03
RMS 0.5155E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.79 / 27
P1 0.8122E-01
P2 -0.4244E-02
P3 0.2982E-01
P4 0.7053E-01
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01



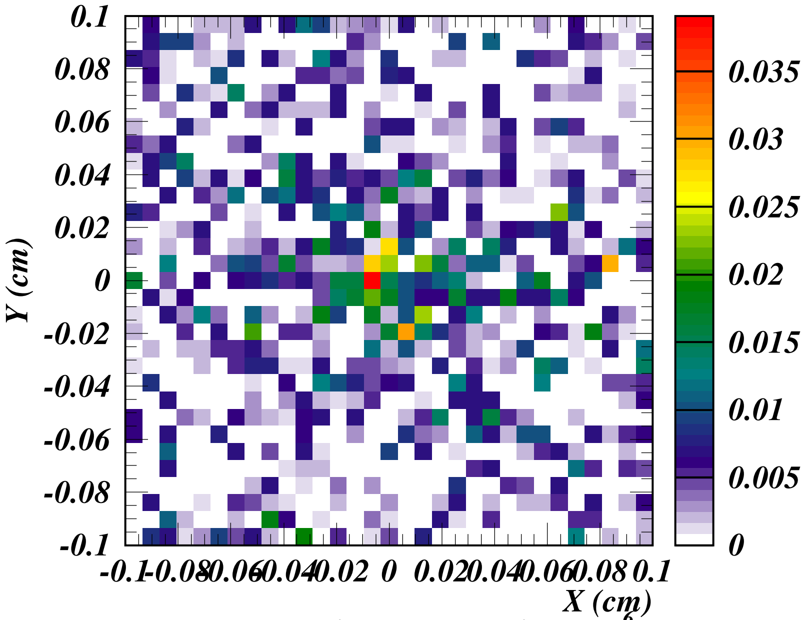
2.1 GeV Drift Region: Time slice 24 at time 266.18 ns
Entries 966
Mean -0.9696E-03
RMS 0.5155E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 37.79 / 27
P1 0.8122E-01
P2 -0.4244E-02
P3 0.2982E-01
P4 0.7053E-01
Cloud charge in bin (10⁶ e)
X (cm)
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 24 at time 266.18 ns
Entries 966
Mean 0.8816E-03
RMS 0.4919E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 48.10 / 27
P1 0.1307
P2 0.5924E-04
P3 0.1964E-01
P4 0.6779E-01
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 12.01
2.1 GeV Drift Region: Time slice 24 at time 266.18 ns
Entries 966
Mean 0.8816E-03
RMS 0.4919E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 48.10 / 27
P1 0.1307
P2 0.5924E-04
P3 0.1964E-01
P4 0.6779E-01
Cloud charge in bin (10^6 e)
Y (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

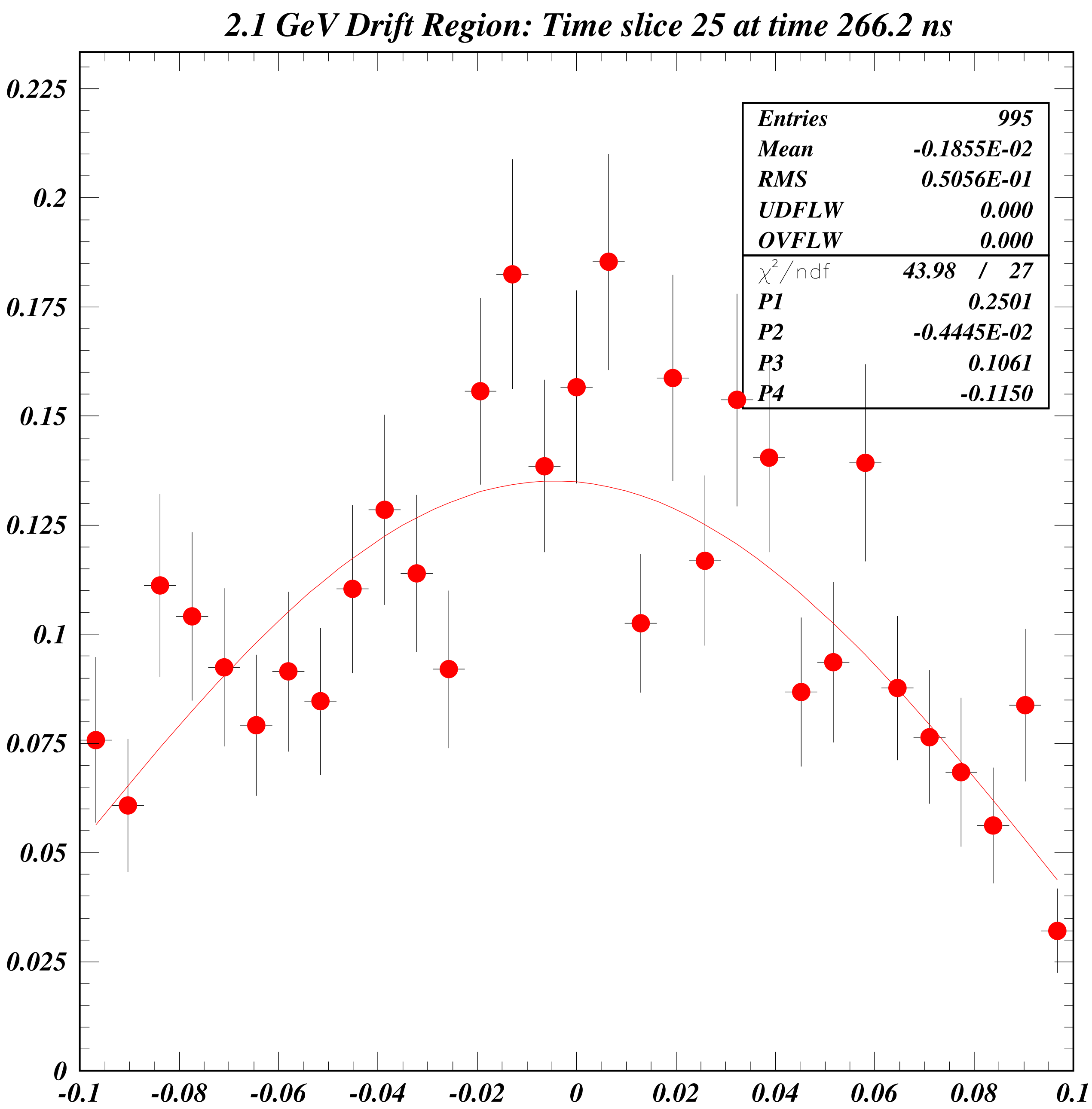
15/09/29   12.01

Snapshot after bunch 20 at time = 266.18 ns

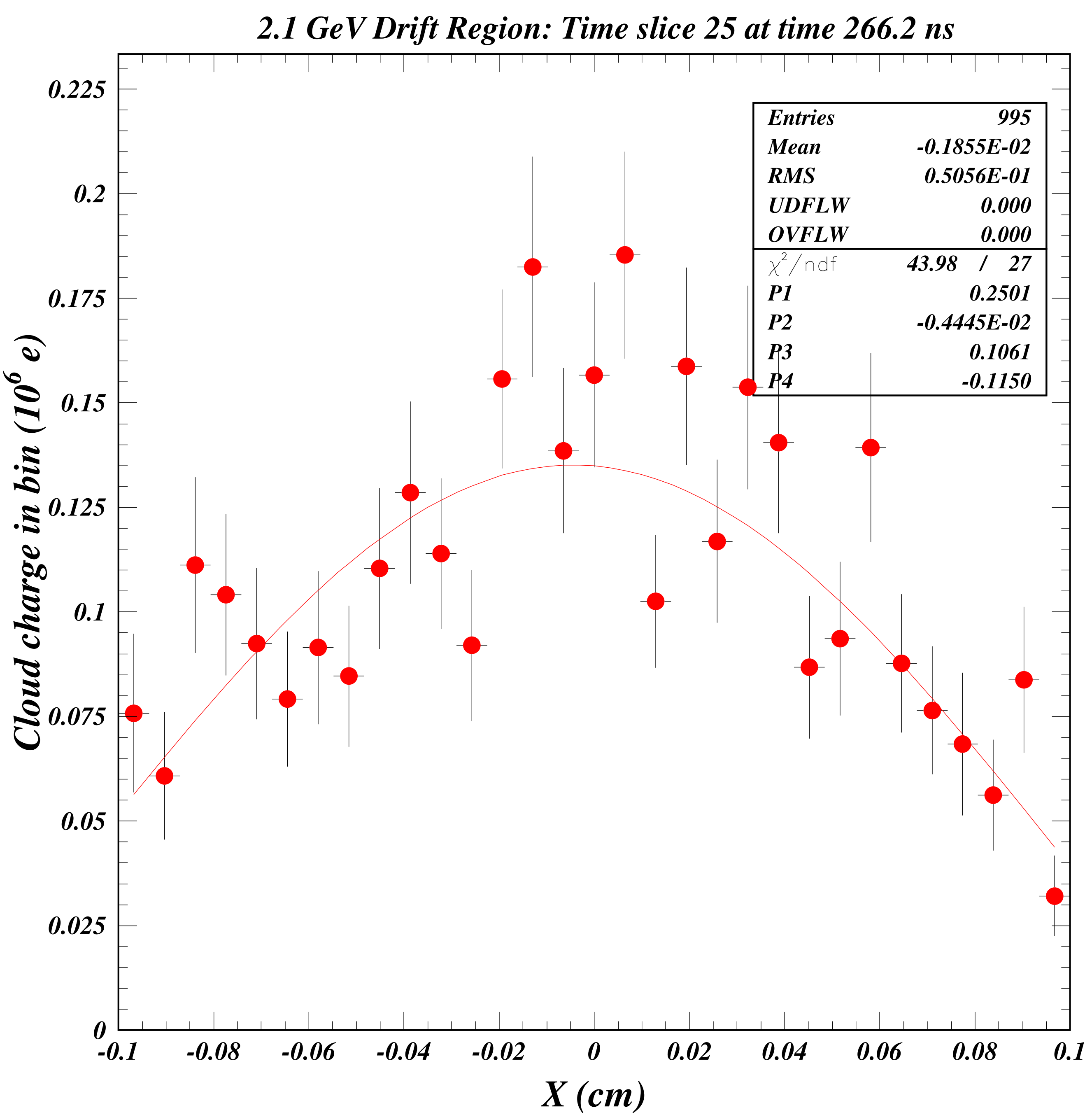


No energy cut: 0k macroparticles, 3 10^6 e-

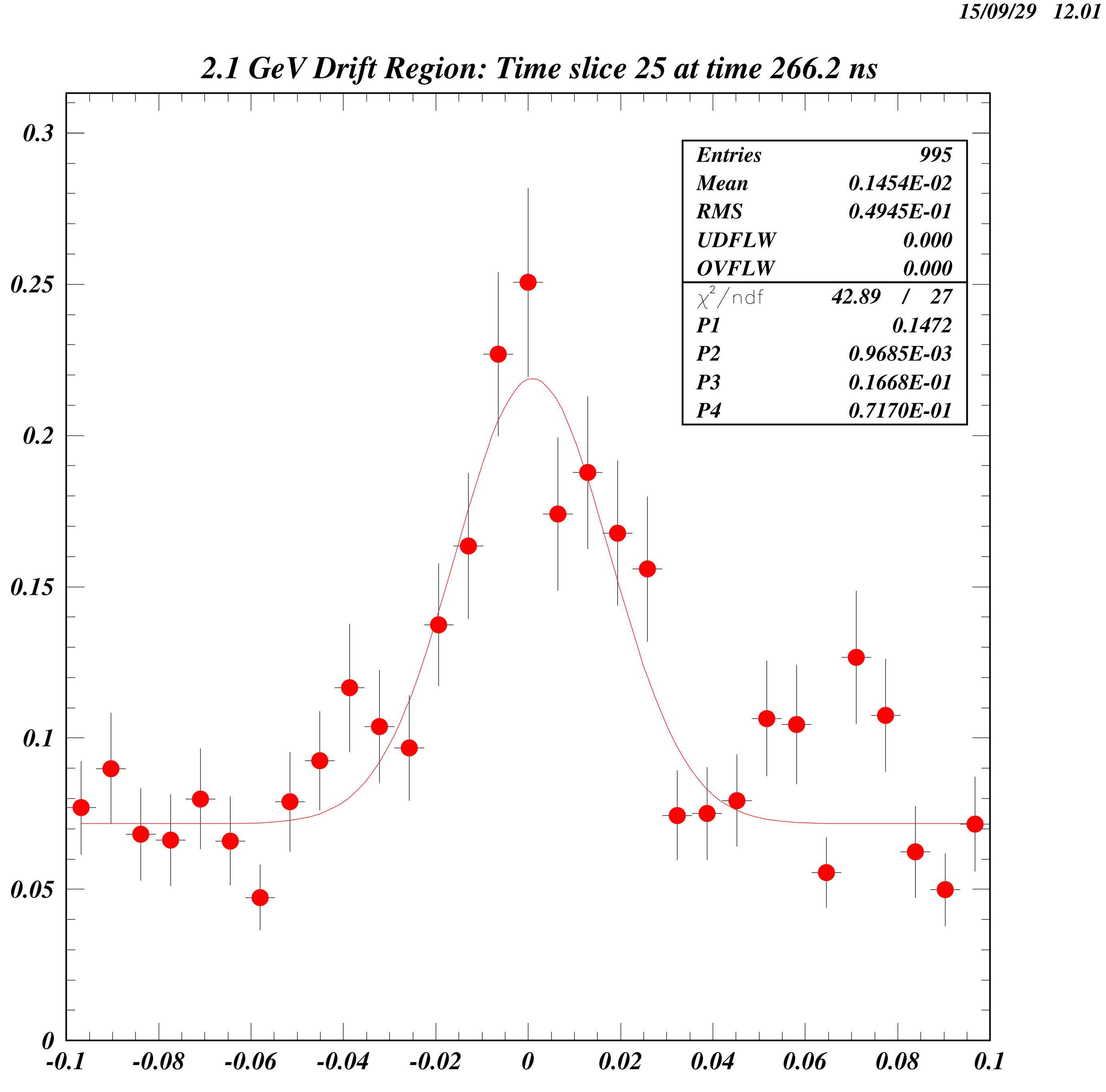
15/09/29 12.01

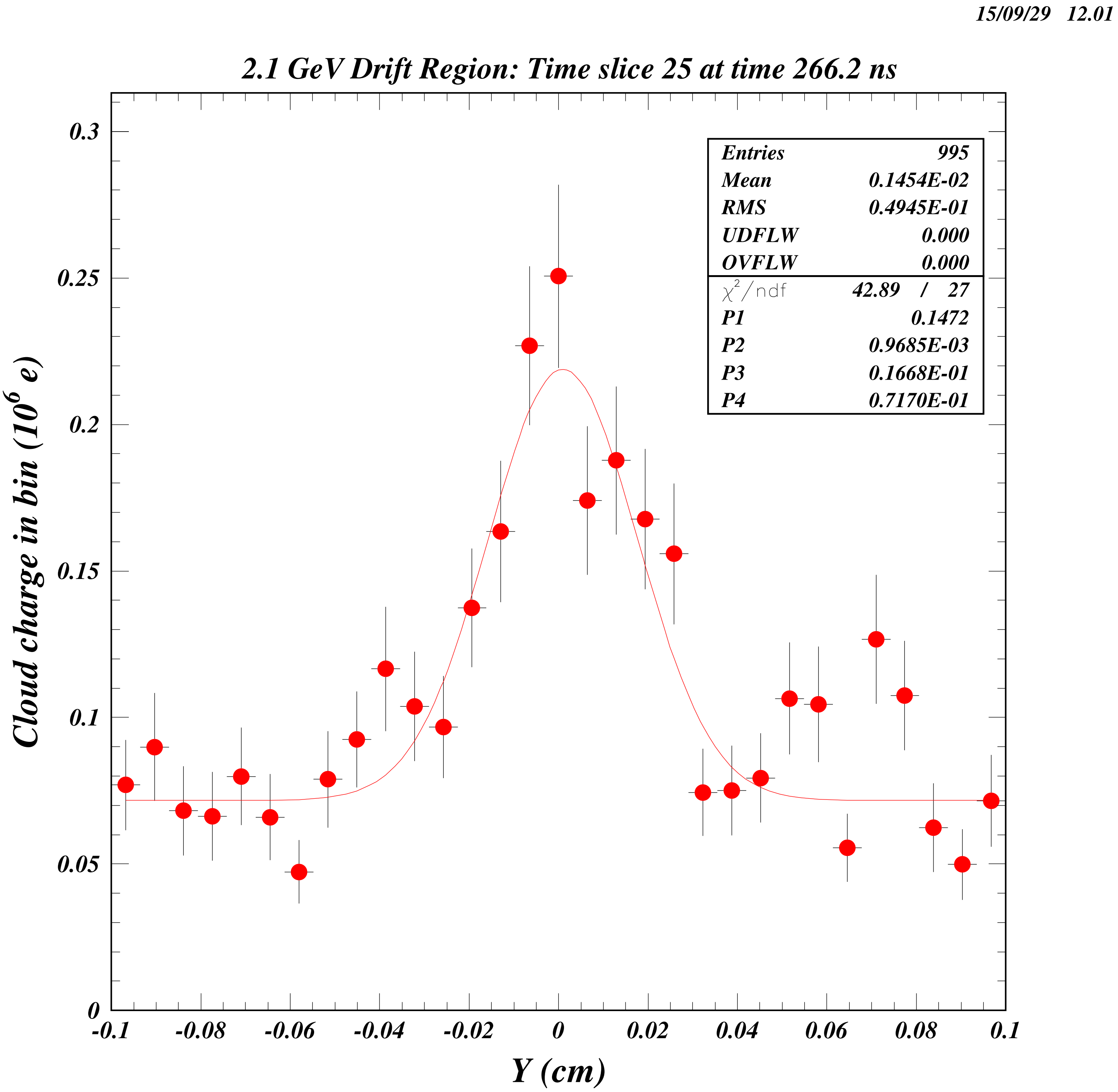

2.1 GeV Drift Region: Time slice 25 at time 266.2 ns
Entries 995
Mean -0.1855E-02
RMS 0.5056E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 43.98 / 27
P1 0.2501
P2 -0.4445E-02
P3 0.1061
P4 -0.1150
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

15/09/29 12.01

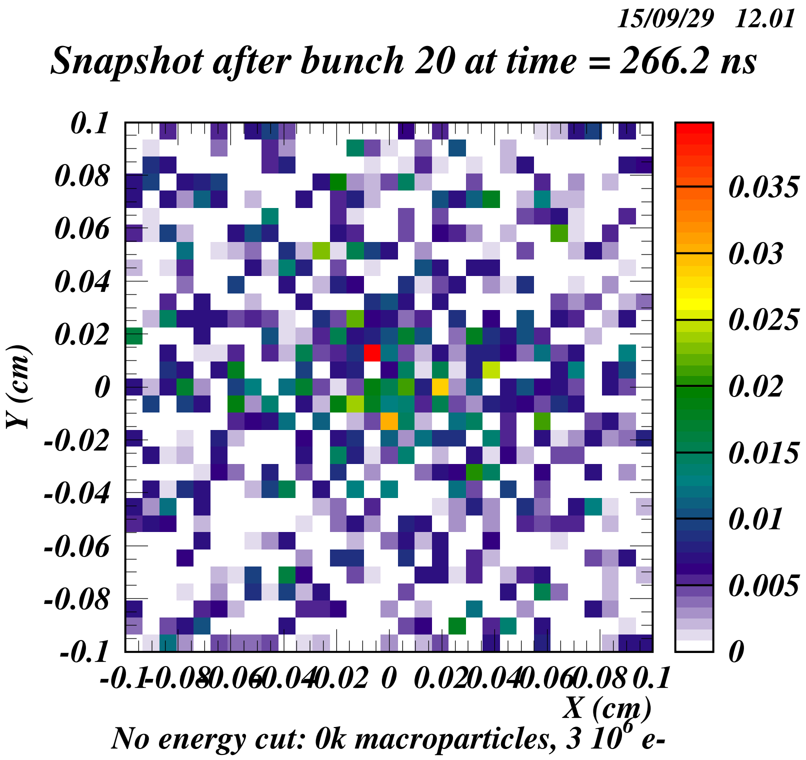


2.1 GeV Drift Region: Time slice 25 at time 266.2 ns
Entries 995
Mean -0.1855E-02
RMS 0.5056E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 43.98 / 27
P1 0.2501
P2 -0.4445E-02
P3 0.1061
P4 -0.1150
Cloud charge in bin (10^6 e)
X (cm)
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1


15/09/29 12.01
2.1 GeV Drift Region: Time slice 25 at time 266.2 ns
Entries 995
Mean 0.1454E-02
RMS 0.4945E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 42.89 / 27
P1 0.1472
P2 0.9685E-03
P3 0.1668E-01
P4 0.7170E-01
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

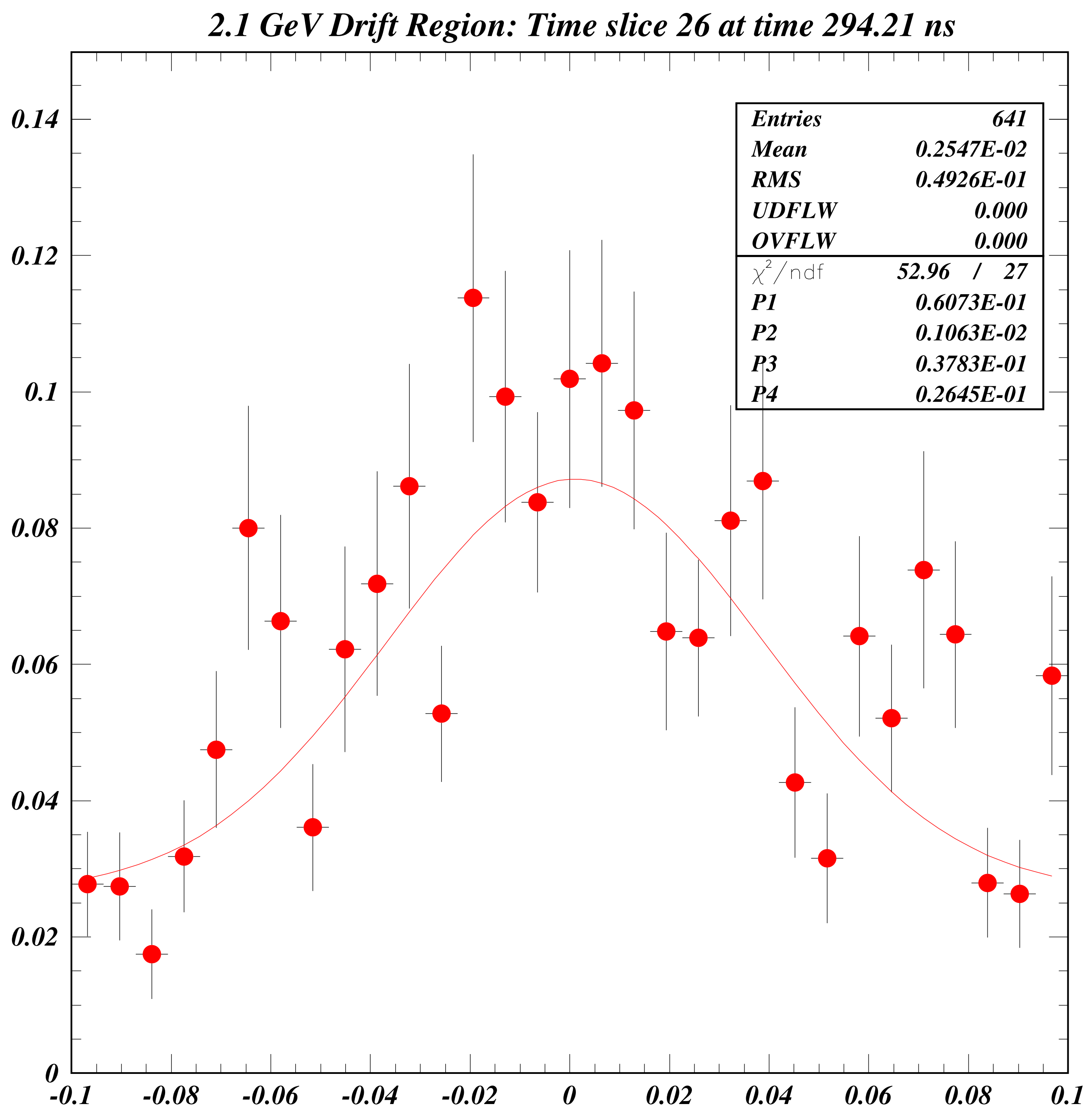


15/09/29 12.01
2.1 GeV Drift Region: Time slice 25 at time 266.2 ns
Entries 995
Mean 0.1454E-02
RMS 0.4945E-01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 42.89 / 27
P1 0.1472
P2 0.9685E-03
P3 0.1668E-01
P4 0.7170E-01
Cloud charge in bin (10⁶ e)
Y (cm)
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

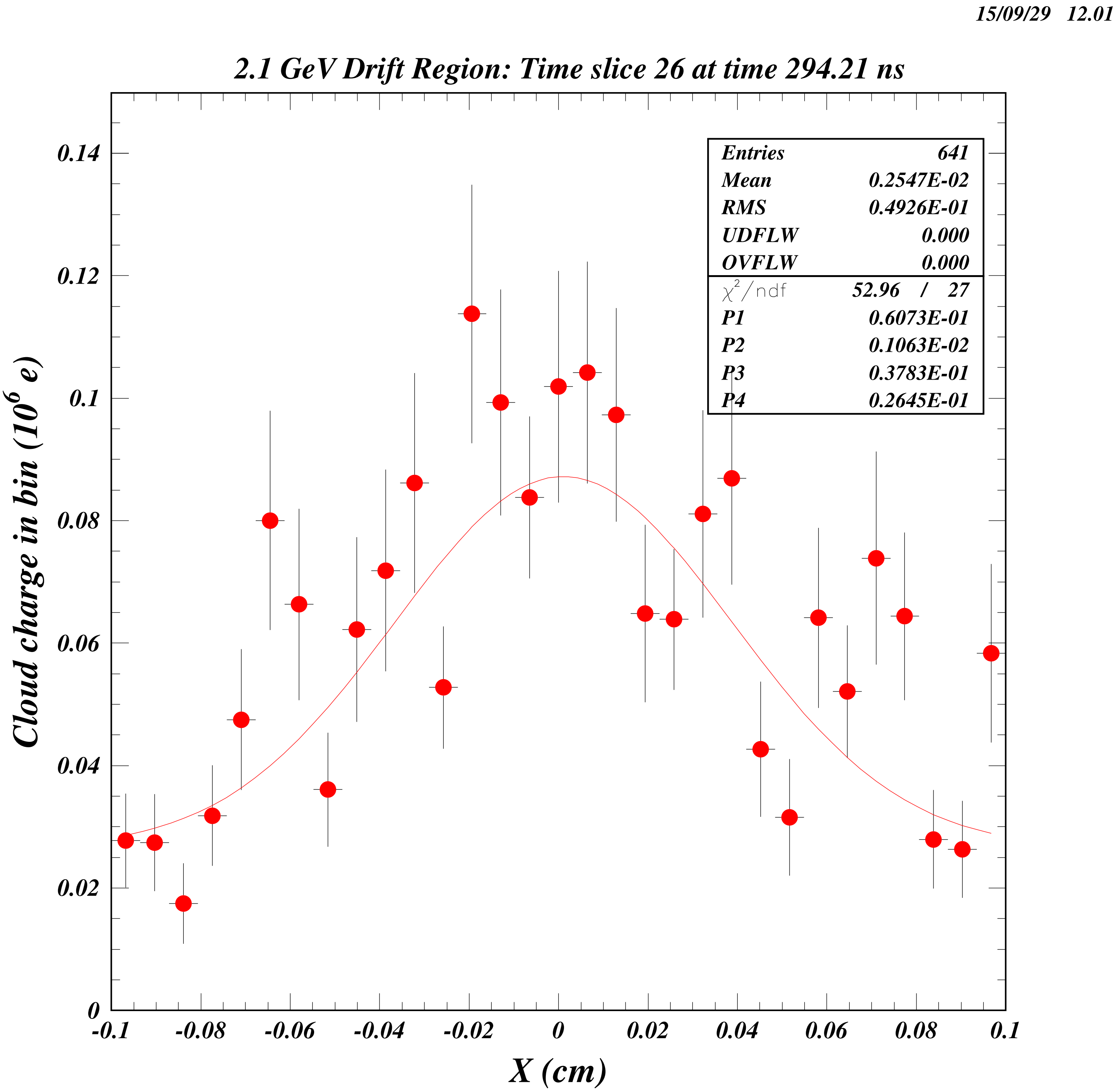


15/09/29 12.01
Snapshot after bunch 20 at time = 266.2 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.035
0.03
0.025
0.02
0.015
0.01
0.005
No energy cut: 0k macroparticles, 3 10^6 e-

15/09/29 12.01

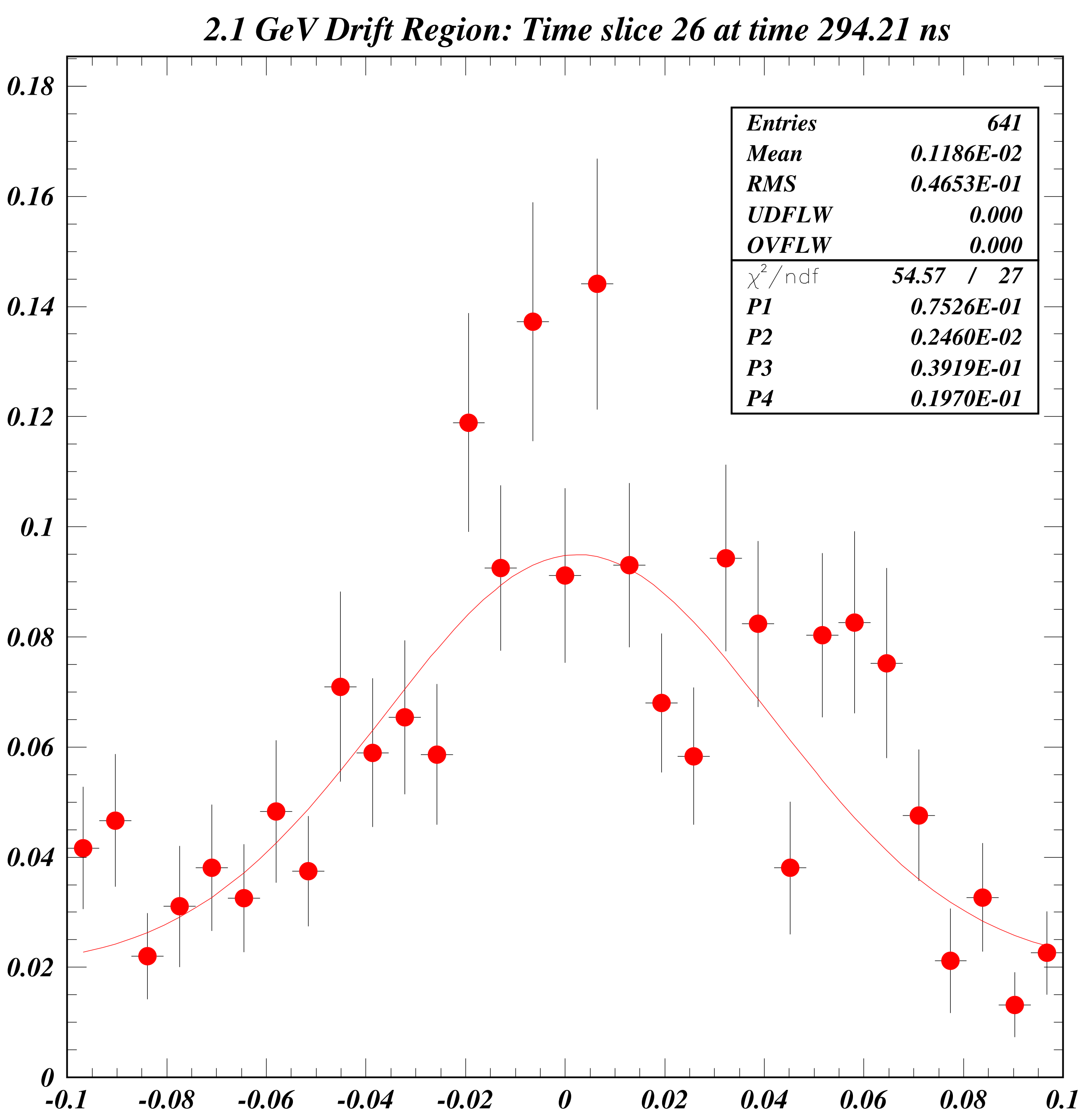


2.1 GeV Drift Region: Time slice 26 at time 294.21 ns
Entries 641
Mean 0.2547E-02
RMS 0.4926E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 52.96 / 27
P1 0.6073E-01
P2 0.1063E-02
P3 0.3783E-01
P4 0.2645E-01
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

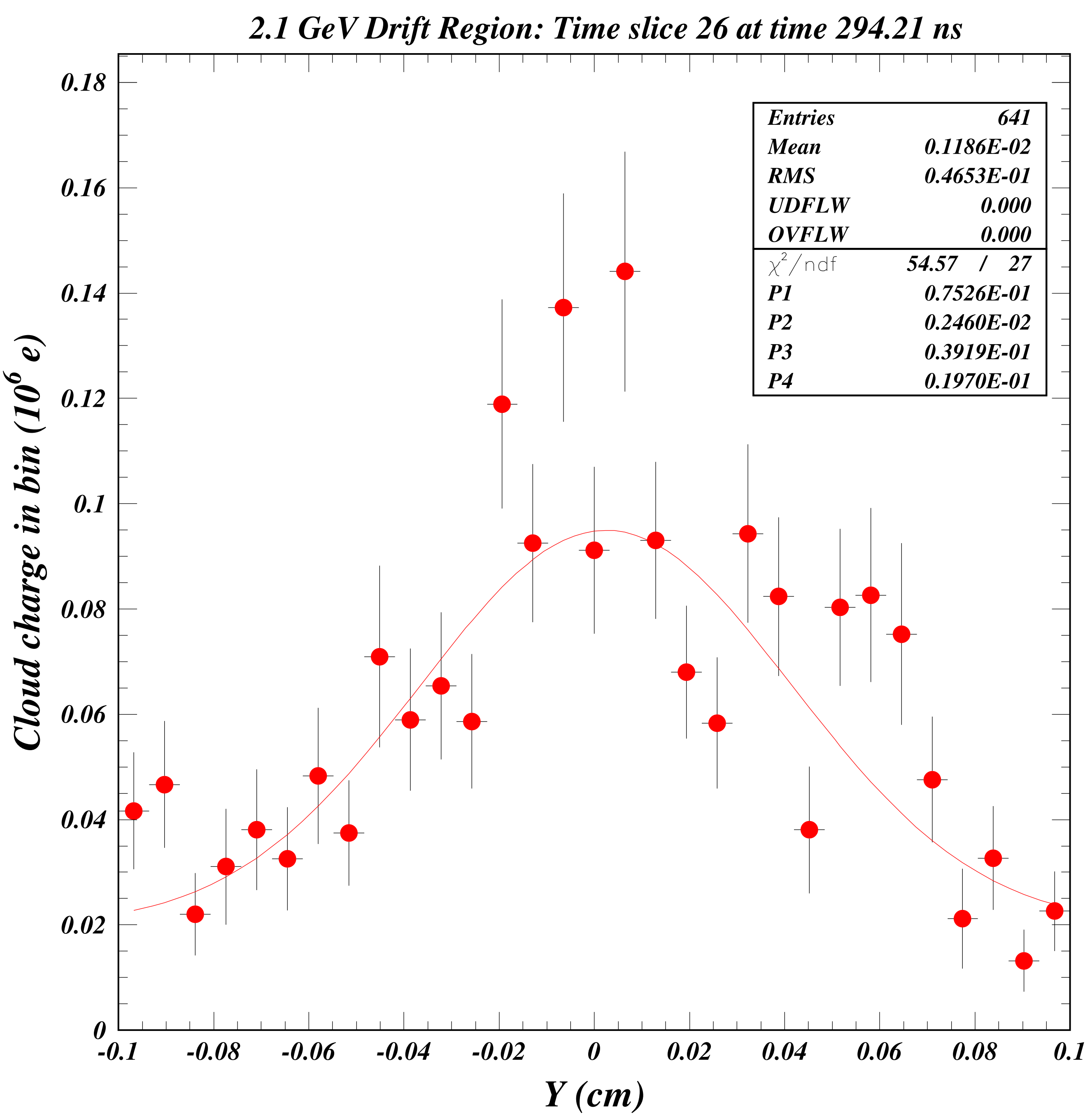


15/09/29 12.01
2.1 GeV Drift Region: Time slice 26 at time 294.21 ns
Entries 641
Mean 0.2547E-02
RMS 0.4926E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 52.96 / 27
P1 0.6073E-01
P2 0.1063E-02
P3 0.3783E-01
P4 0.2645E-01
Cloud charge in bin (10^6 e)
X (cm)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.1
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
0.1

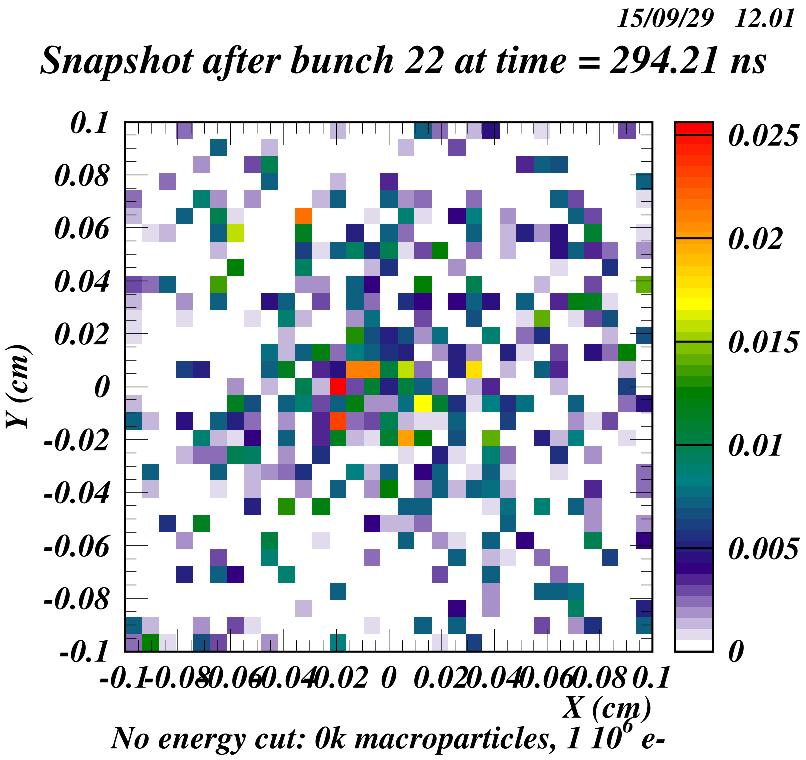
15/09/29   12.01


2.1 GeV Drift Region: Time slice 26 at time 294.21 ns
Entries 641
Mean 0.1186E-02
RMS 0.4653E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 54.57 / 27
P1 0.7526E-01
P2 0.2460E-02
P3 0.3919E-01
P4 0.1970E-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   12.01

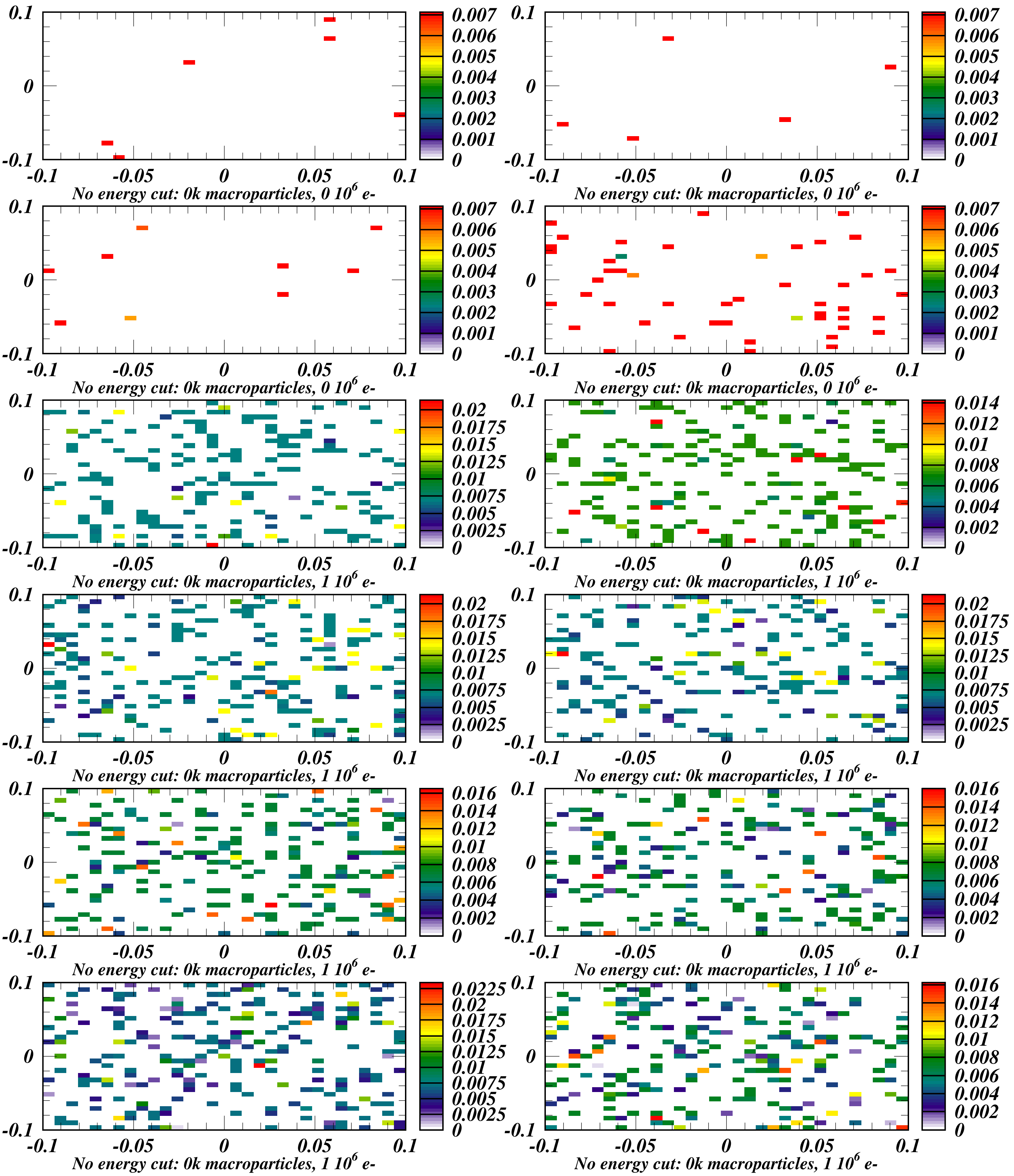


2.1 GeV Drift Region: Time slice 26 at time 294.21 ns
Entries 641
Mean 0.1186E-02
RMS 0.4653E-01
UDFLW 0.000
OVFLW 0.000
χ^2/ndf 54.57 / 27
P1 0.7526E-01
P2 0.2460E-02
P3 0.3919E-01
P4 0.1970E-01
Cloud charge in bin (10^6 e)
Y (cm)
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
-0.1
-0.08
-0.06
-0.04
-0.02
0.02
0.04
0.06
0.08
0.1

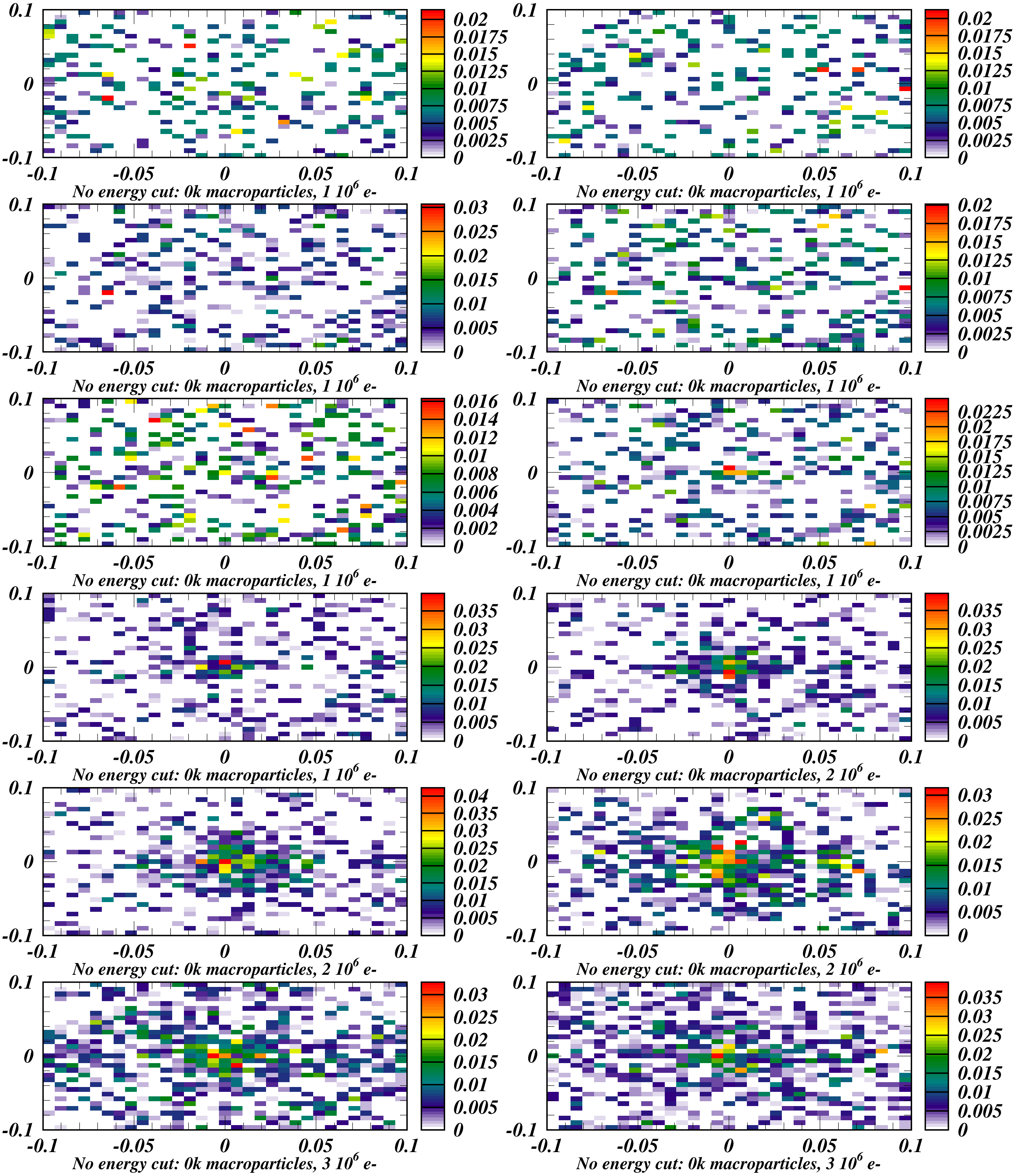

15/09/29 12.01
Snapshot after bunch 22 at time = 294.21 ns
Y (cm)
X (cm)
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
-0.06
-0.08
-0.1
0.025
0.02
0.015
0.01
0.005
No energy cut: 0k macroparticles, 1 10^6 e-

15/09/29 12.01

2.1 GeV Drift Region: Cloud charge shapshots

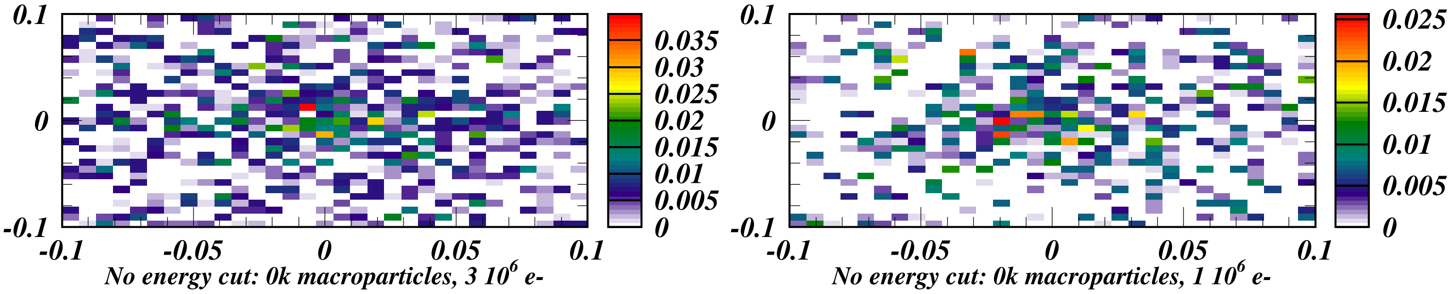


2.1 GeV Drift Region: Cloud charge shapshots



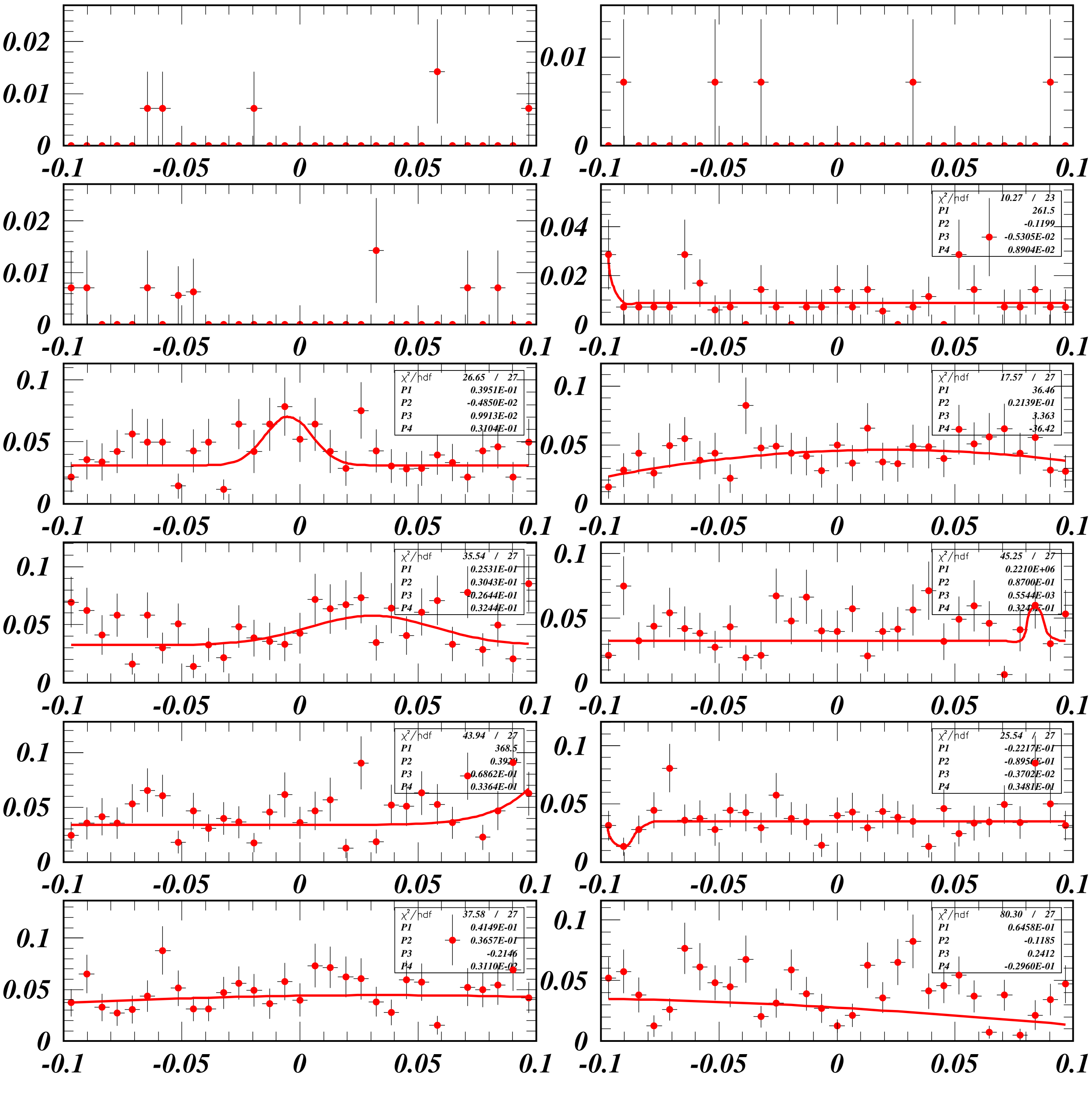
15/09/29 12.01

2.1 GeV Drift Region: Cloud charge shapshots



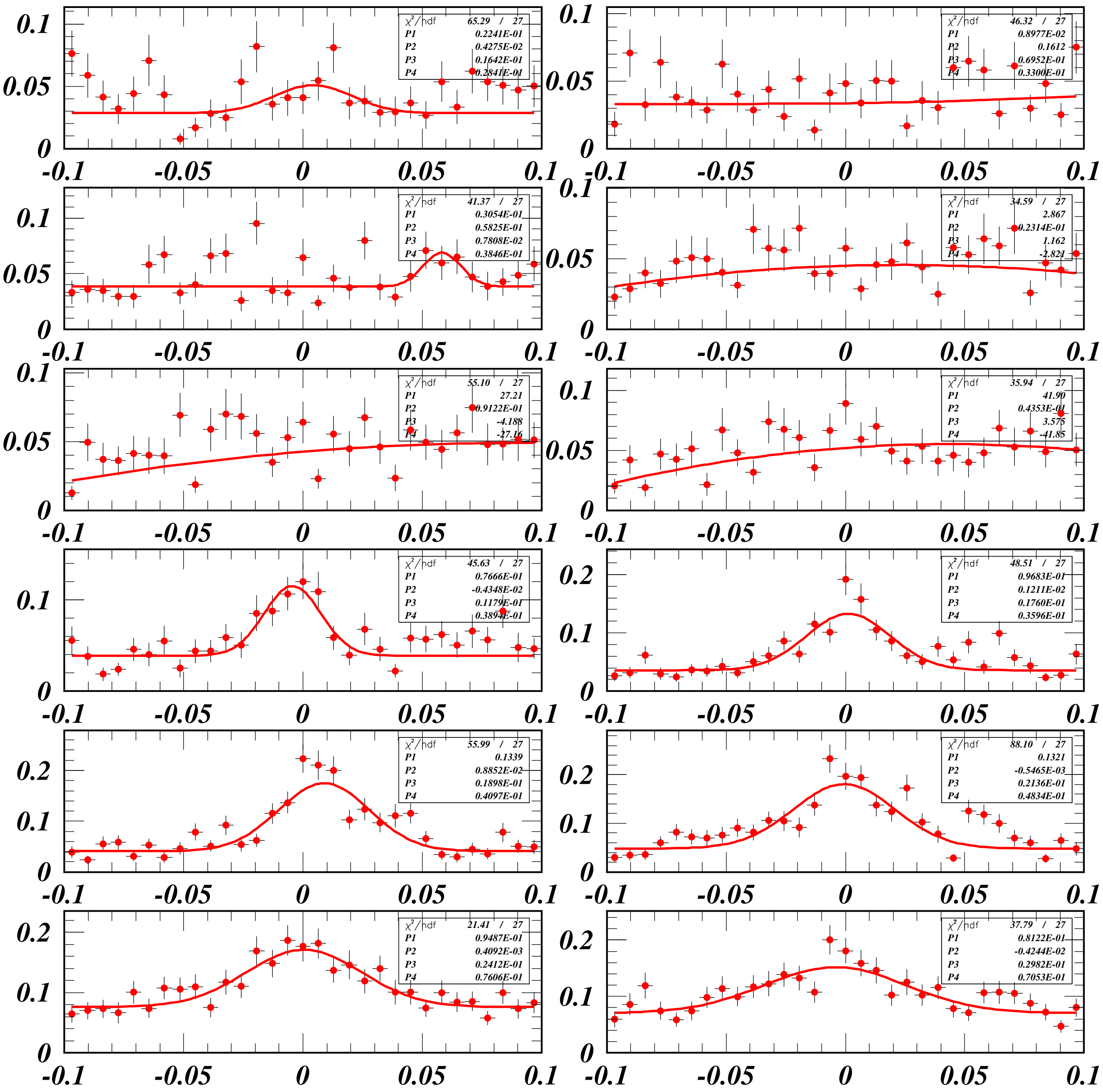
15/09/29 12.01

2.1 GeV Drift Region: Fits to cloud charge X distribution



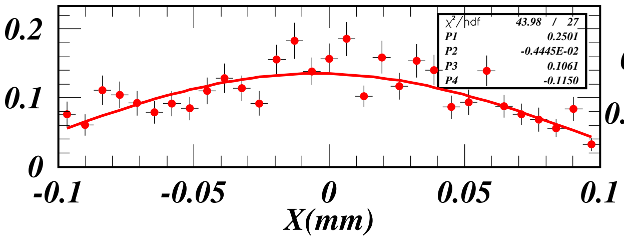
15/09/29 12.01

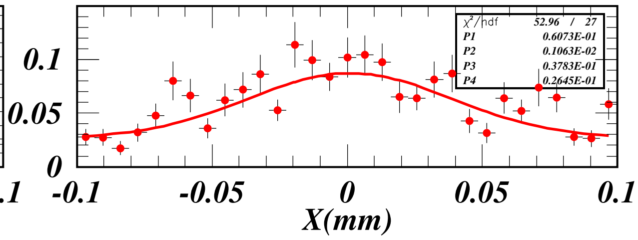
2.1 GeV Drift Region: Fits to cloud charge X distribution



15/09/29 12.01

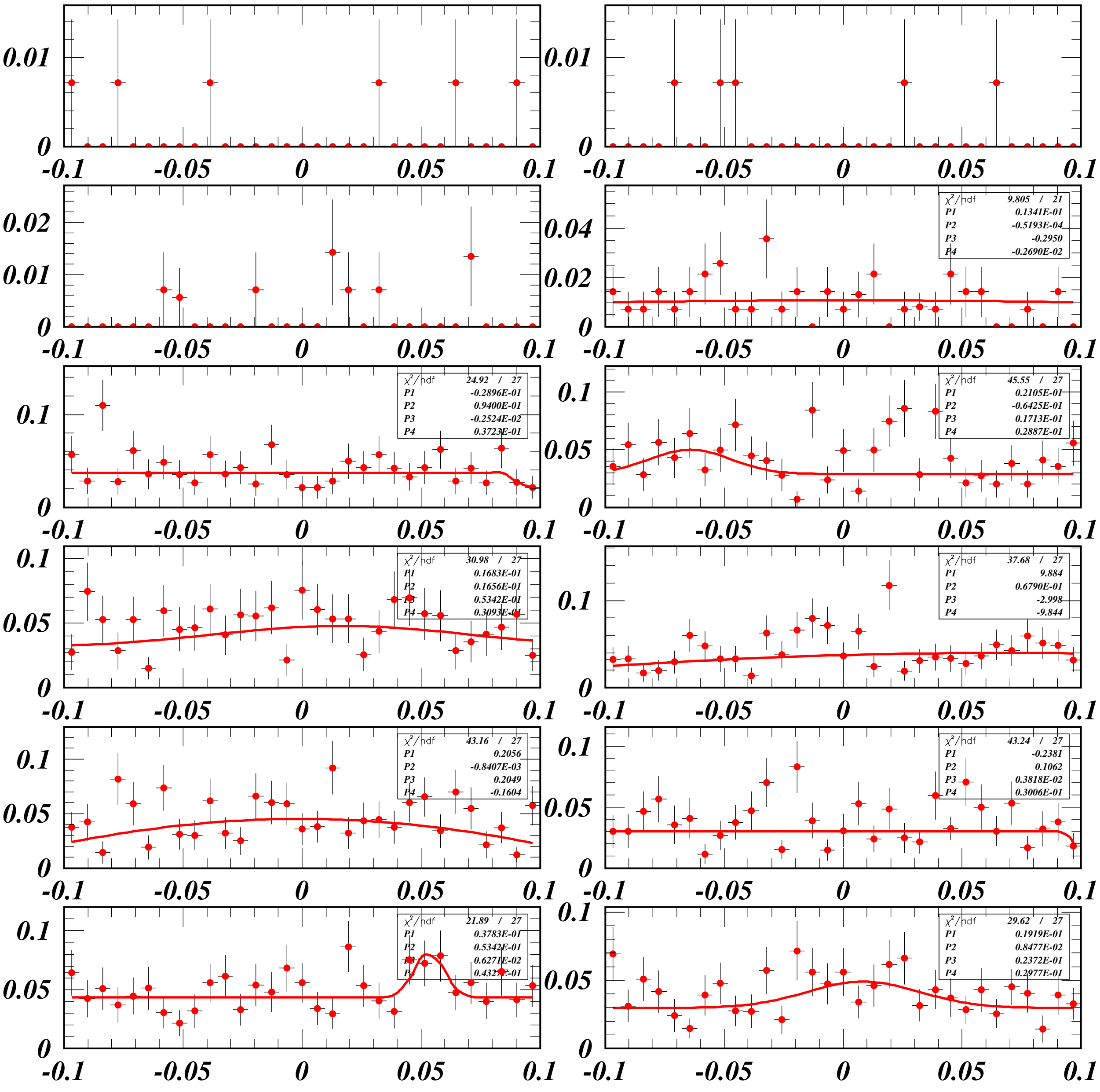
2.1 GeV Drift Region: Fits to cloud charge X distribution





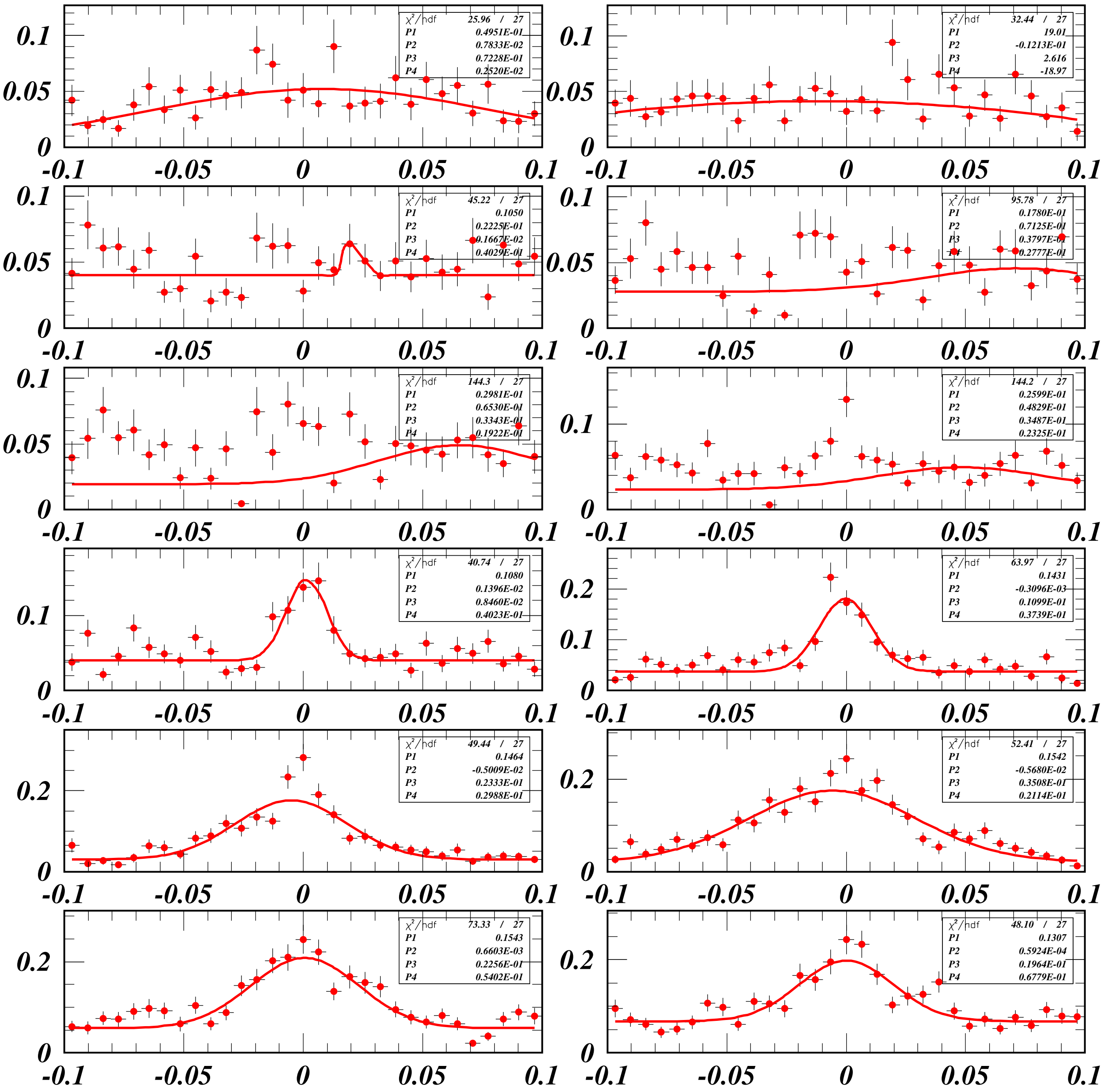
15/09/29 12.01

2.1 GeV Drift Region: Fits to cloud charge Y distribution



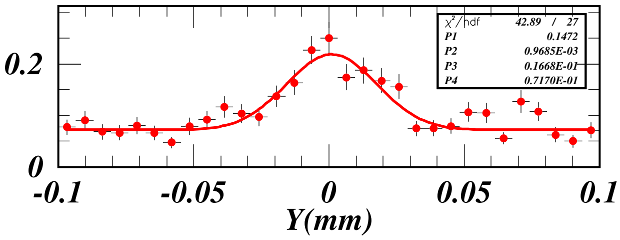
15/09/29 12.01

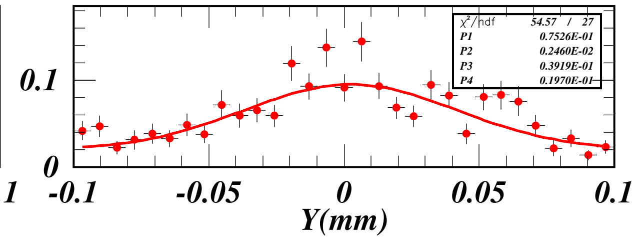
2.1 GeV Drift Region: Fits to cloud charge Y distribution

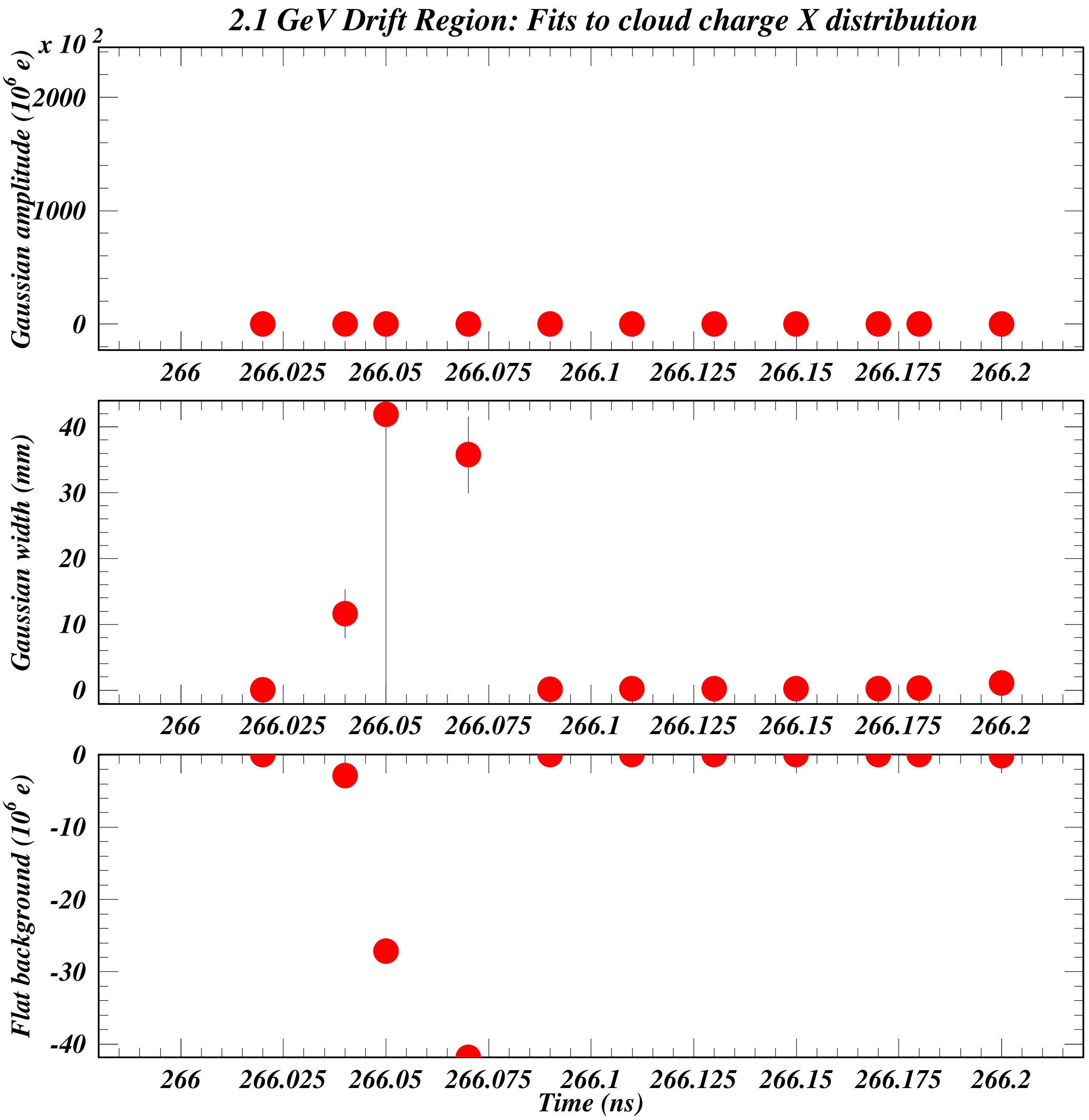


15/09/29 12.01

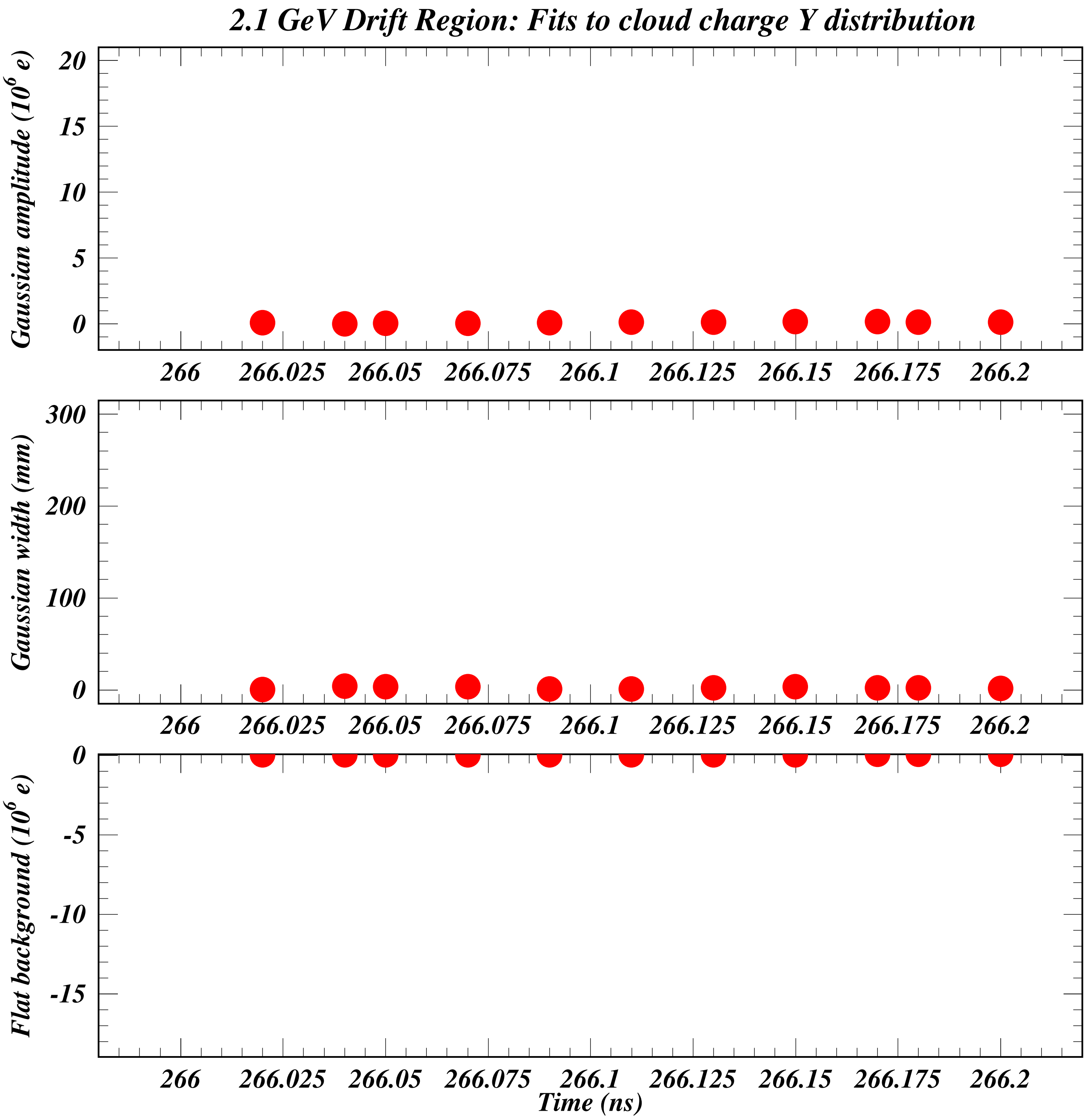
2.1 GeV Drift Region: Fits to cloud charge Y distribution



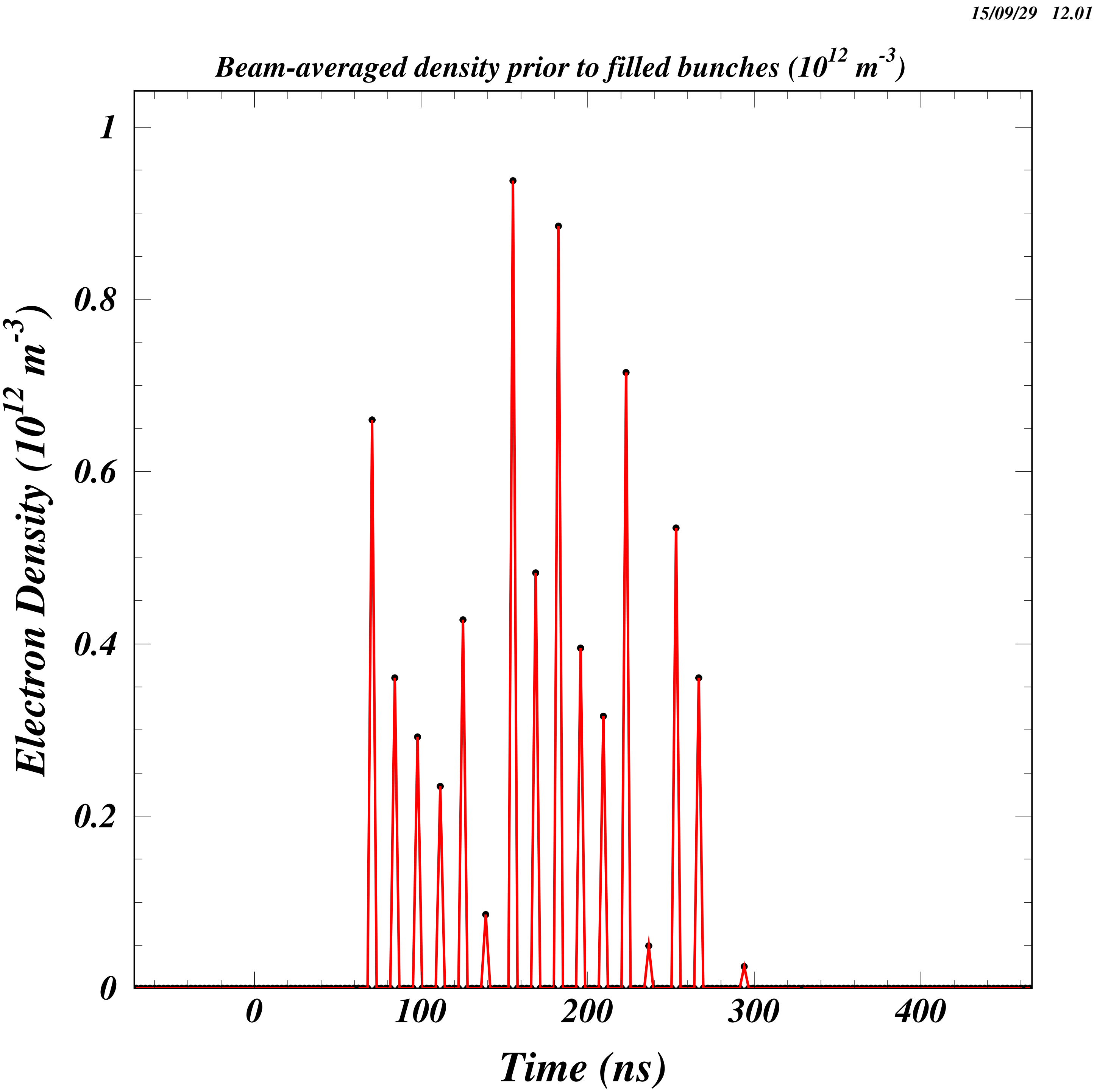


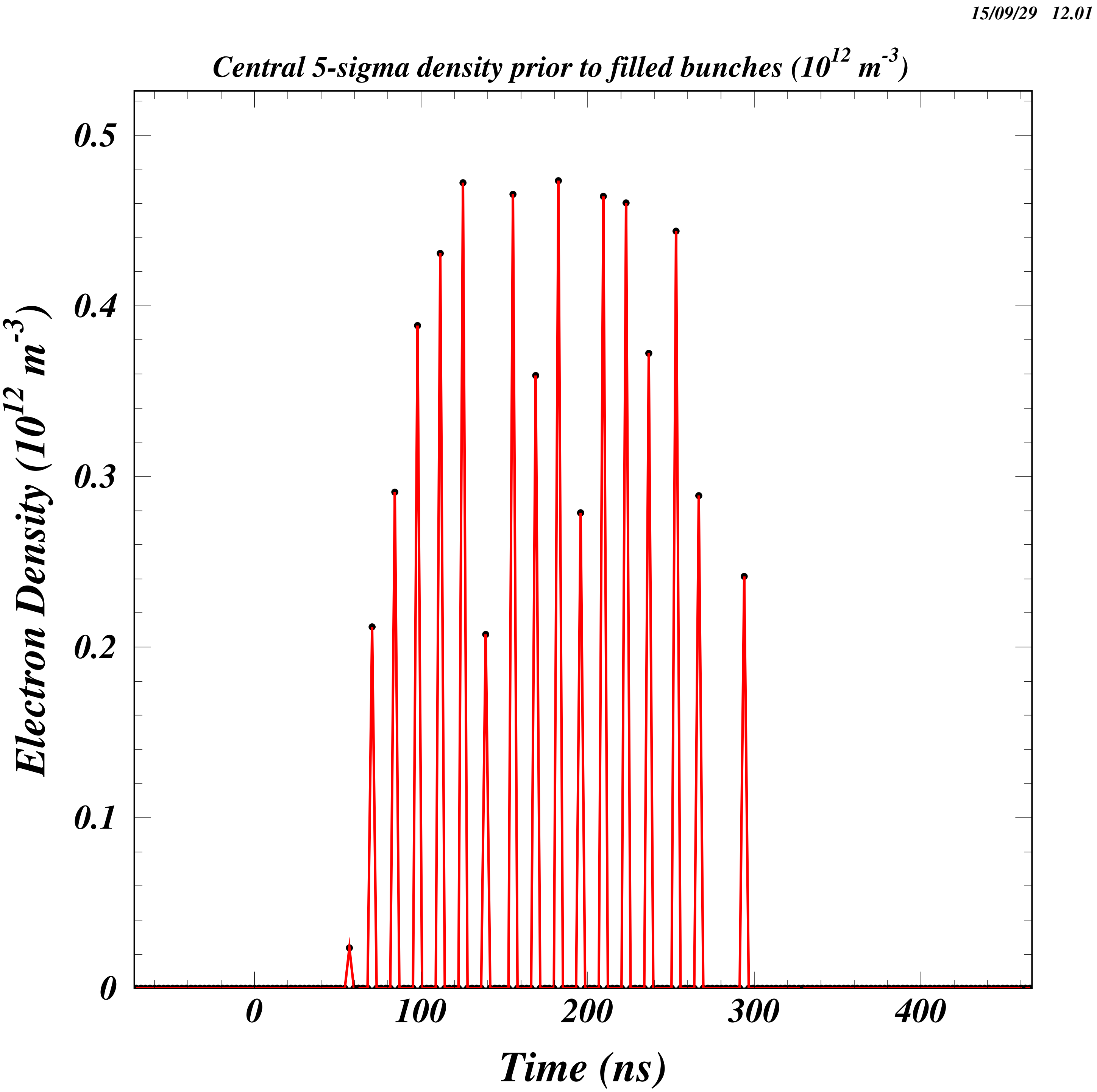

2.1 GeV Drift Region: Fits to cloud charge X distribution
x 10^2
Gaussian amplitude (10^6 e)
2000
1000
0
Gaussian width (mm)
40
30
20
10
0
Flat background (10^6 e)
0
-10
-20
-30
-40
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Time (ns)

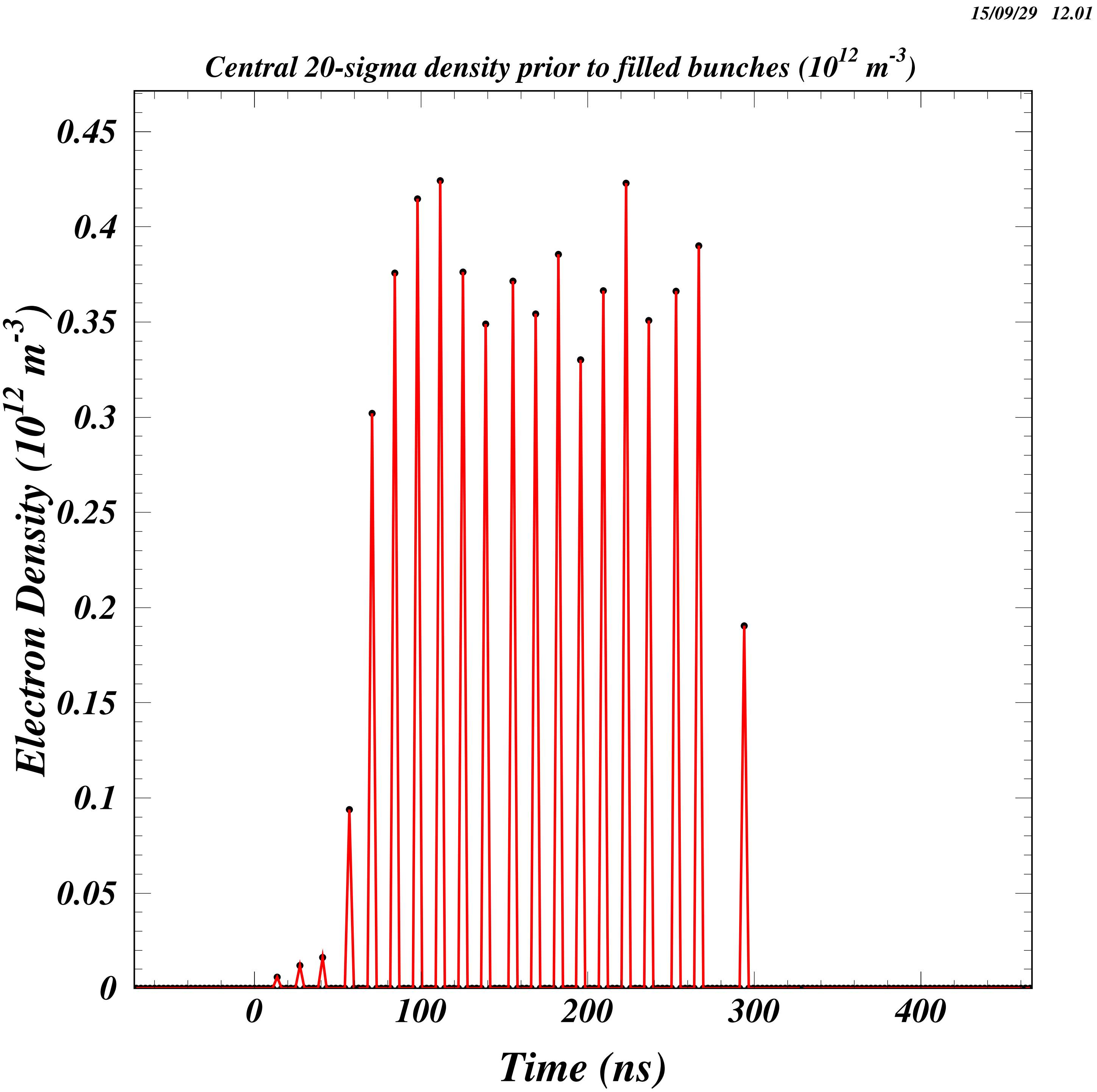
15/09/29 12.01

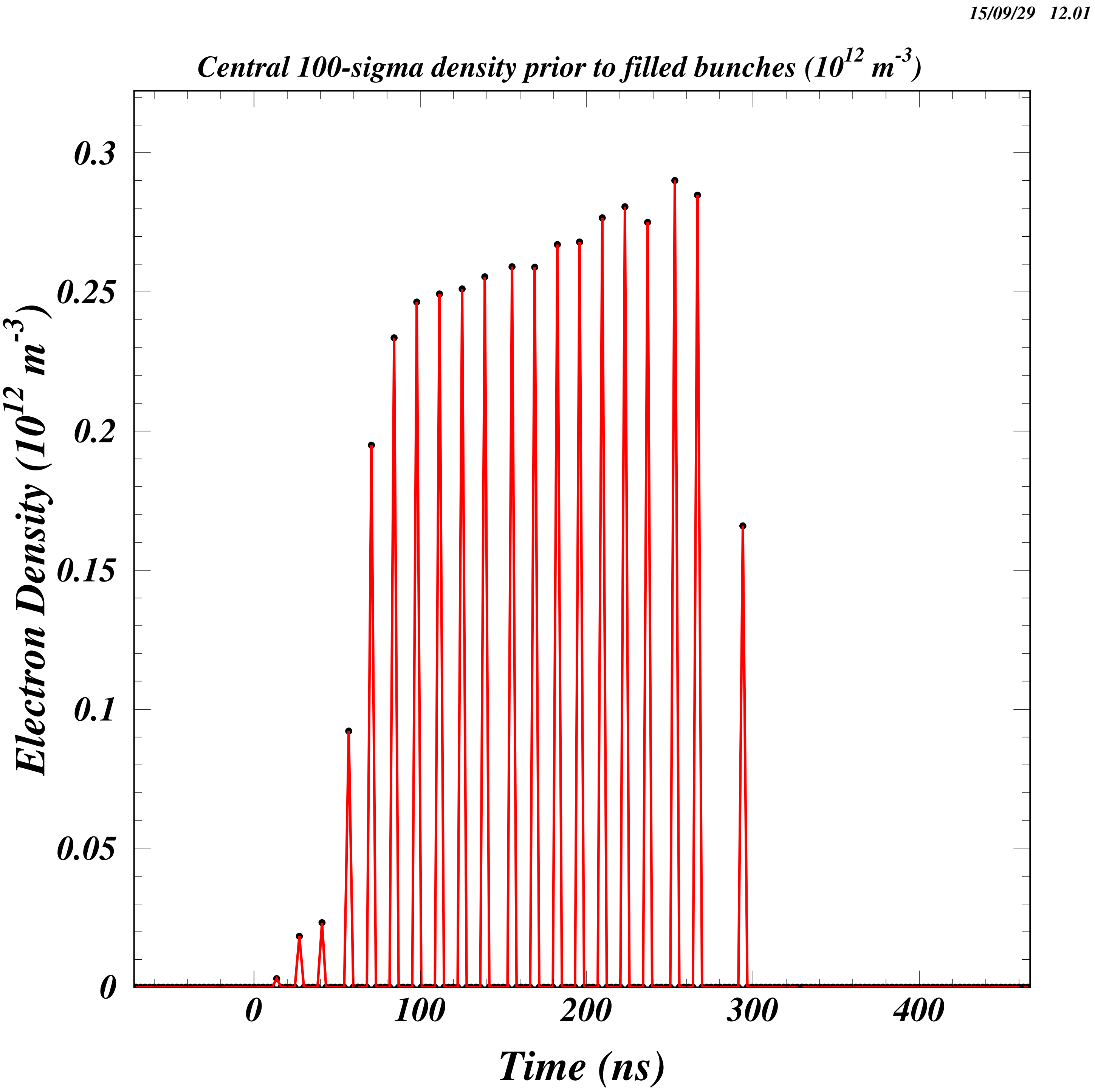


2.1 GeV Drift Region: Fits to cloud charge Y distribution
Gaussian amplitude (10^6 e)
20
15
10
5
0
266
266.025
266.05
266.075
266.1
266.125
266.15
266.175
266.2
Gaussian width (mm)
300
200
100
0
Flat background (10^6 e)
0
-5
-10
-15
Time (ns)

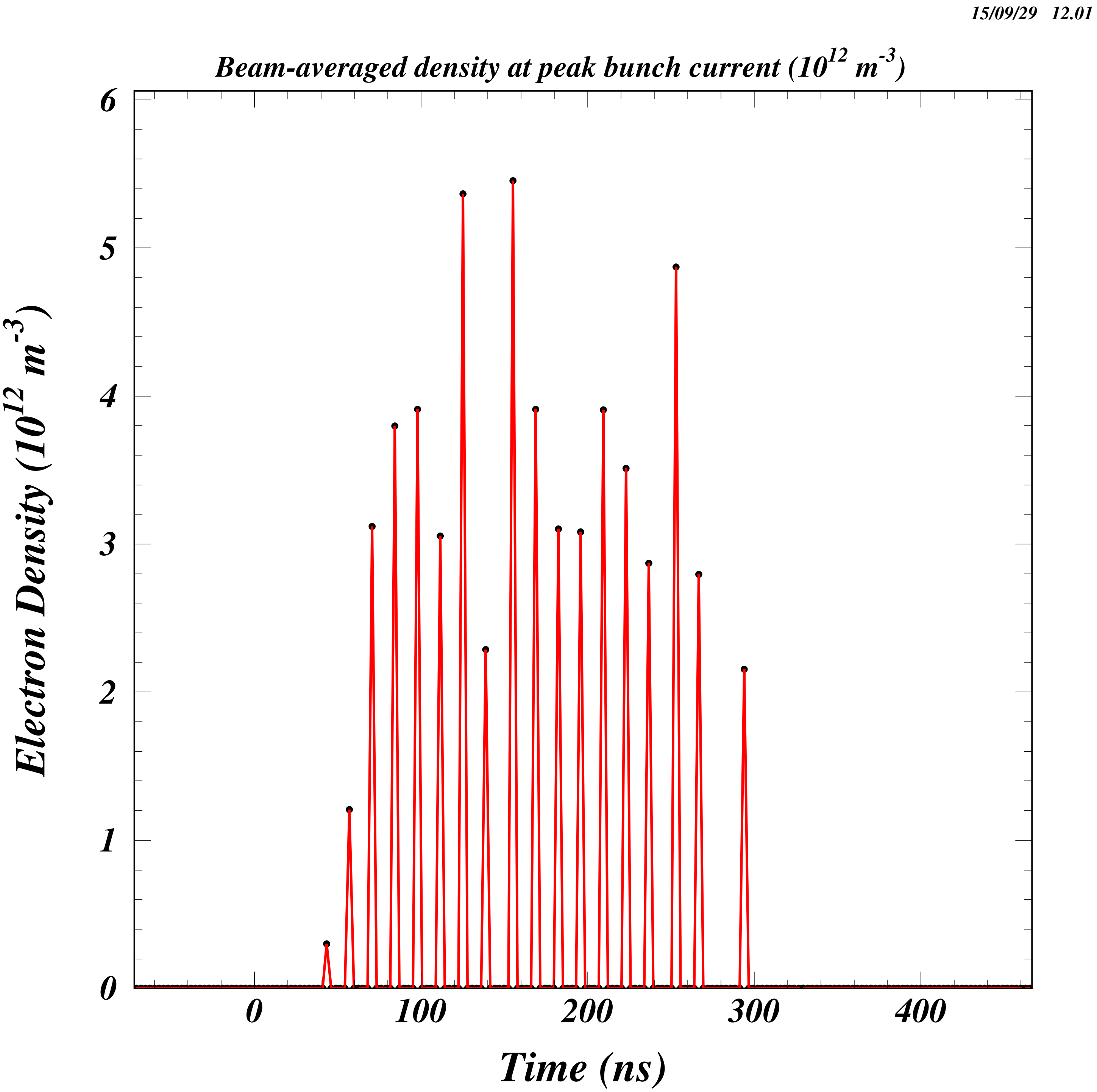

15/09/29 12.01
Beam-averaged density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.2
0.4
0.6
0.8
1
0
100
200
300
400
Time (ns)

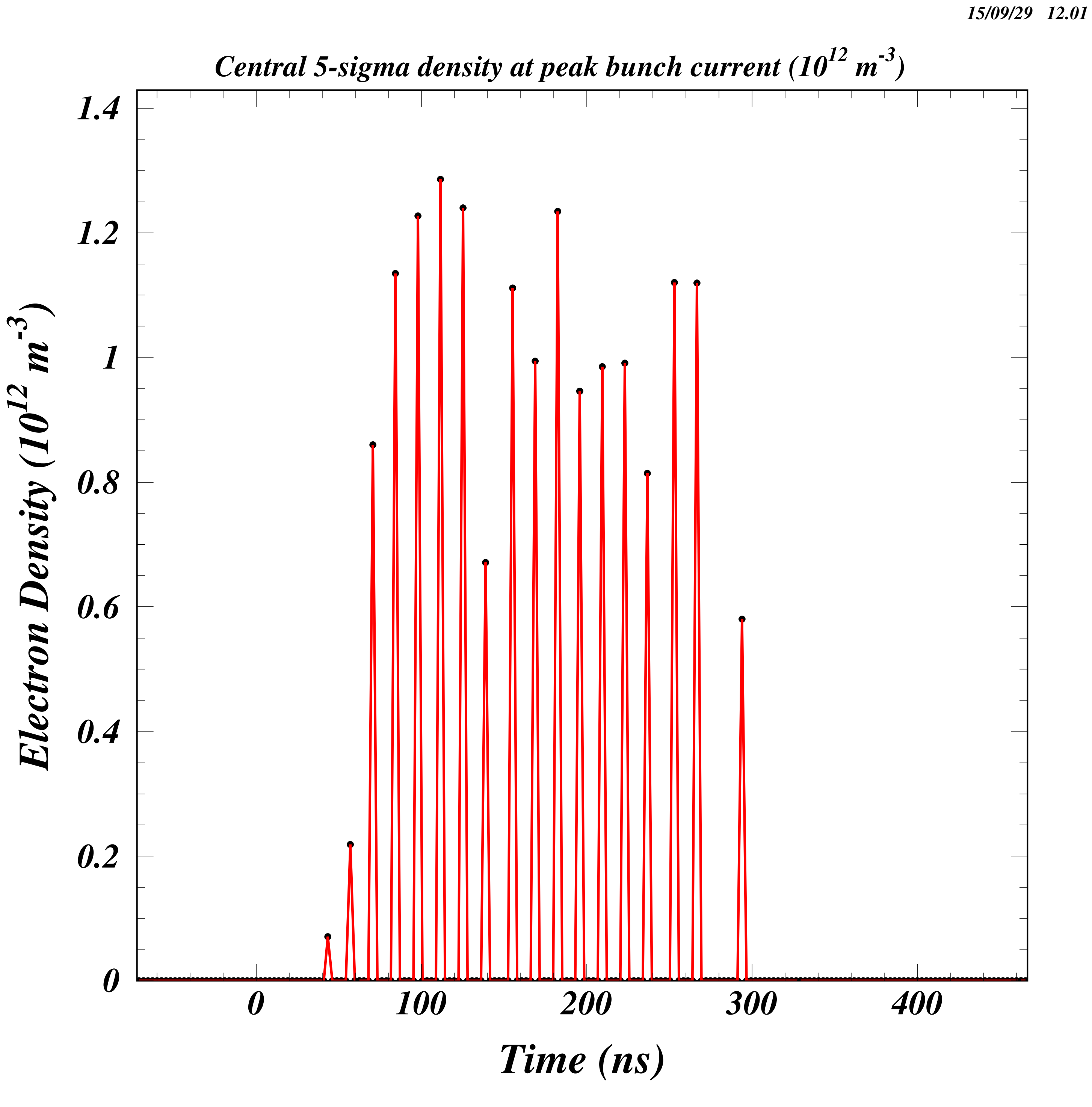

15/09/29 12.01
Central 5-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.5
0.4
0.3
0.2
0.1
0
0
100
200
300
400
Time (ns)


15/09/29 12.01
Central 20-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
100
200
300
400
Time (ns)

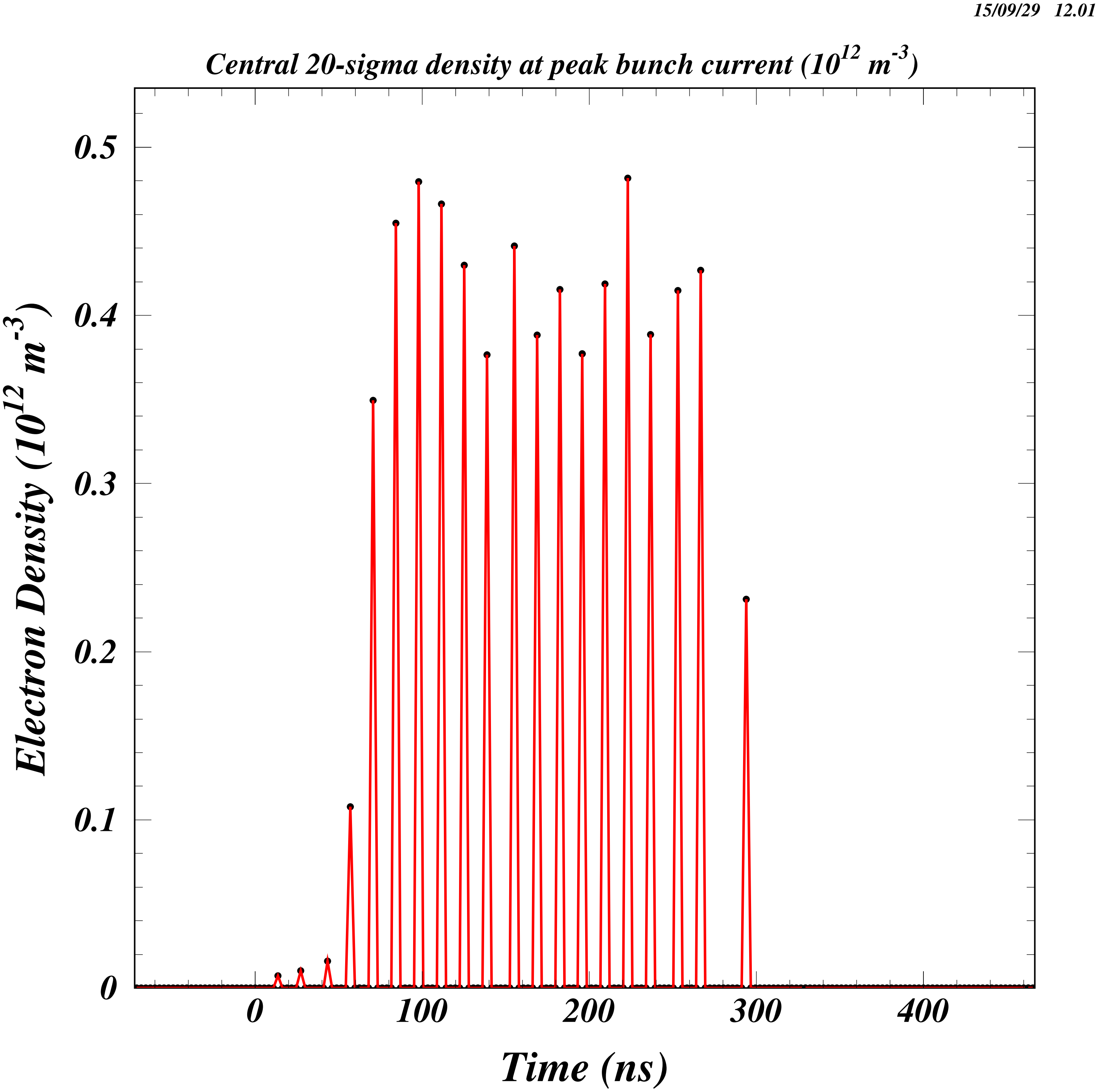


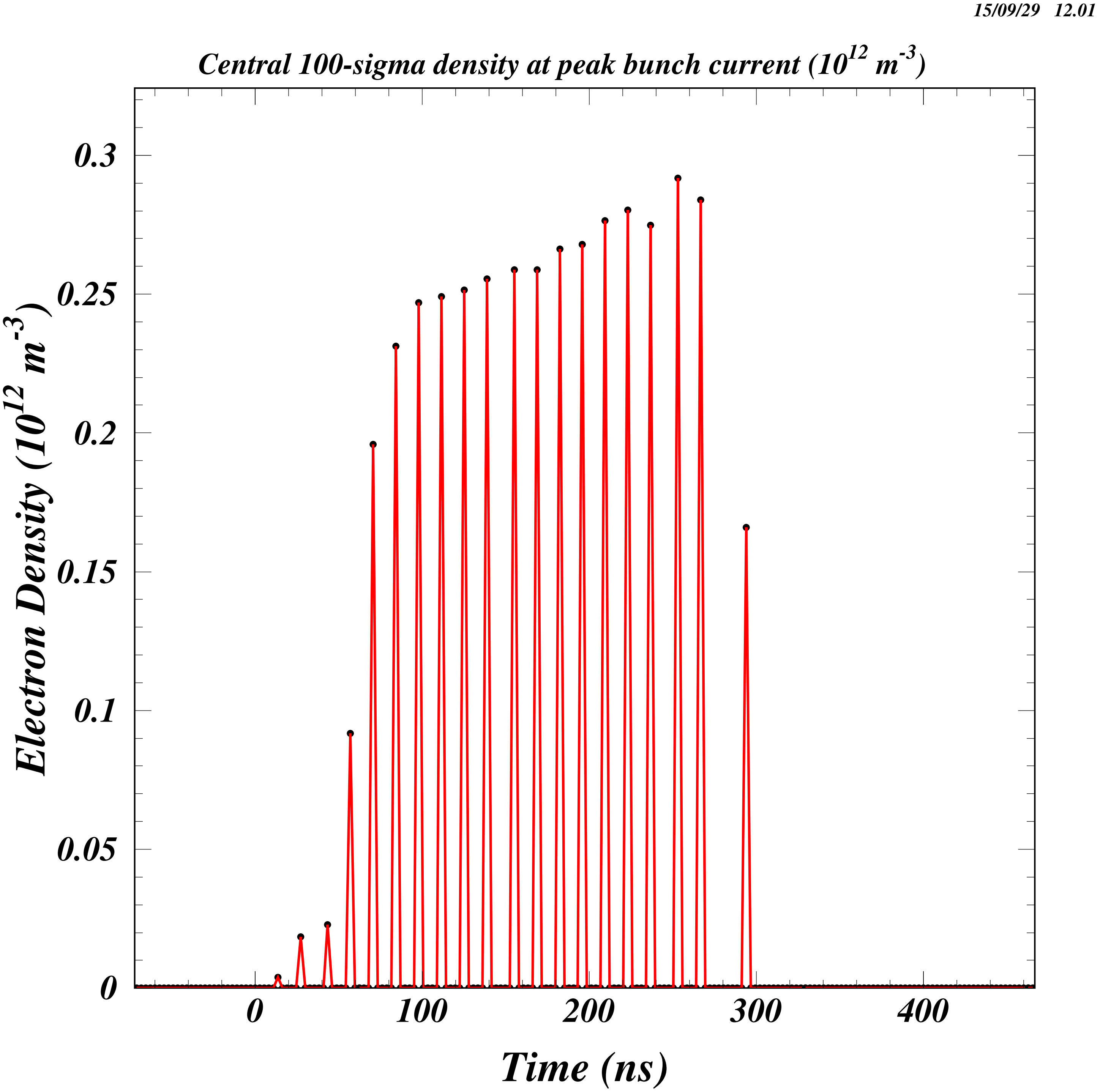
15/09/29 12.01
Central 100-sigma density prior to filled bunches (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.05
0.1
0.15
0.2
0.25
0.3
0
100
200
300
400
Time (ns)

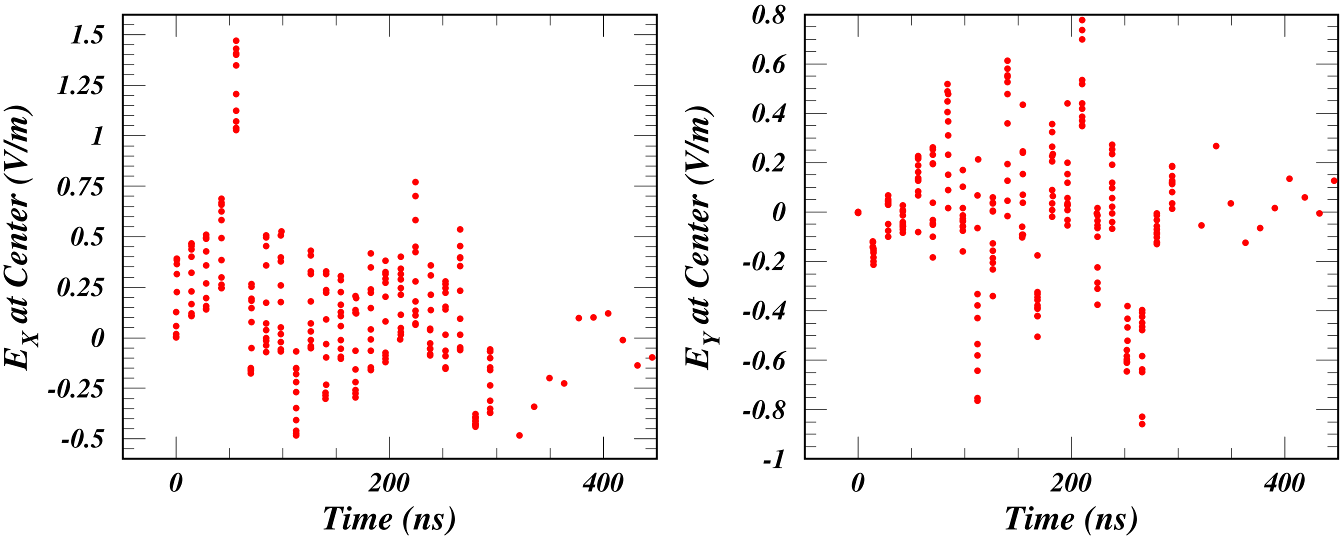

15/09/29 12.01
Beam-averaged density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
Time (ns)
0
1
2
3
4
5
6
0
100
200
300
400



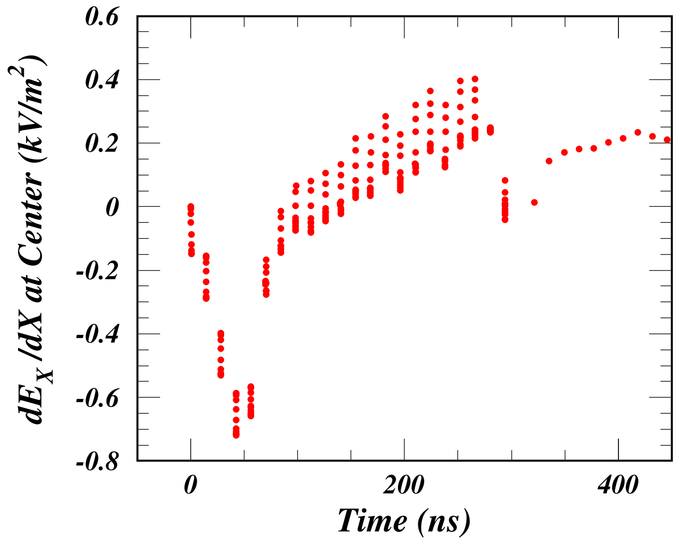
15/09/29 12.01
Central 5-sigma density at peak bunch current (10^{12} m^{-3})
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Electron Density (10^{12} m^{-3})
0
100
200
300
400
Time (ns)


15/09/29 12.01
Central 20-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0.5
0.4
0.3
0.2
0.1
0
0
100
200
300
400
Time (ns)

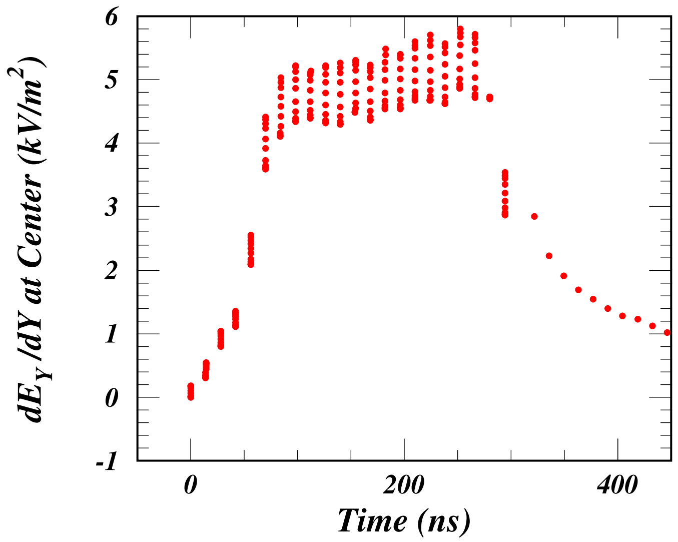

15/09/29 12.01
Central 100-sigma density at peak bunch current (10^{12} m^{-3})
Electron Density (10^{12} m^{-3})
0
0.05
0.1
0.15
0.2
0.25
0.3
0
100
200
300
400
Time (ns)



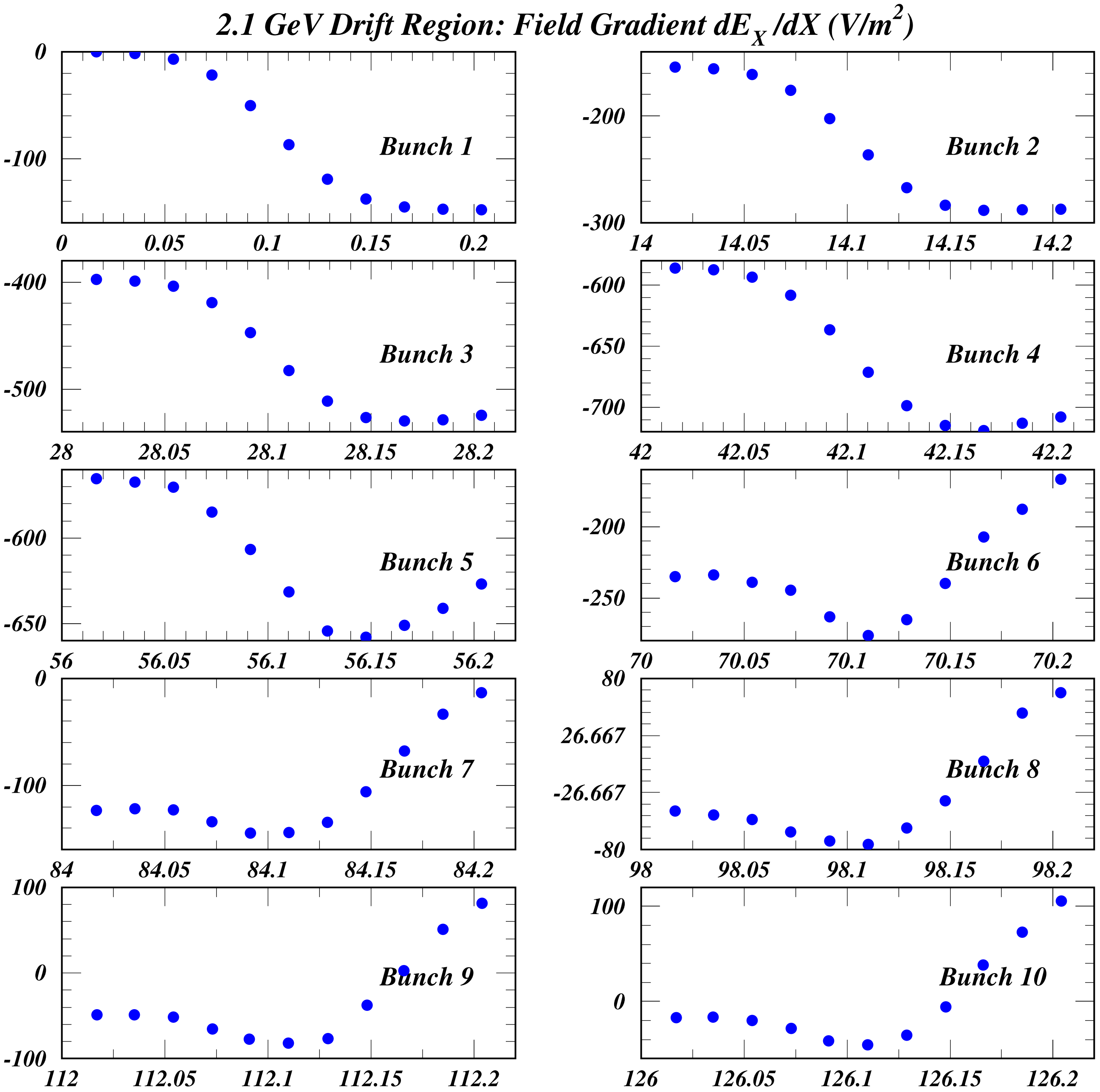
E_X at Center (V/m)
Time (ns)
E_Y at Center (V/m)
Time (ns)



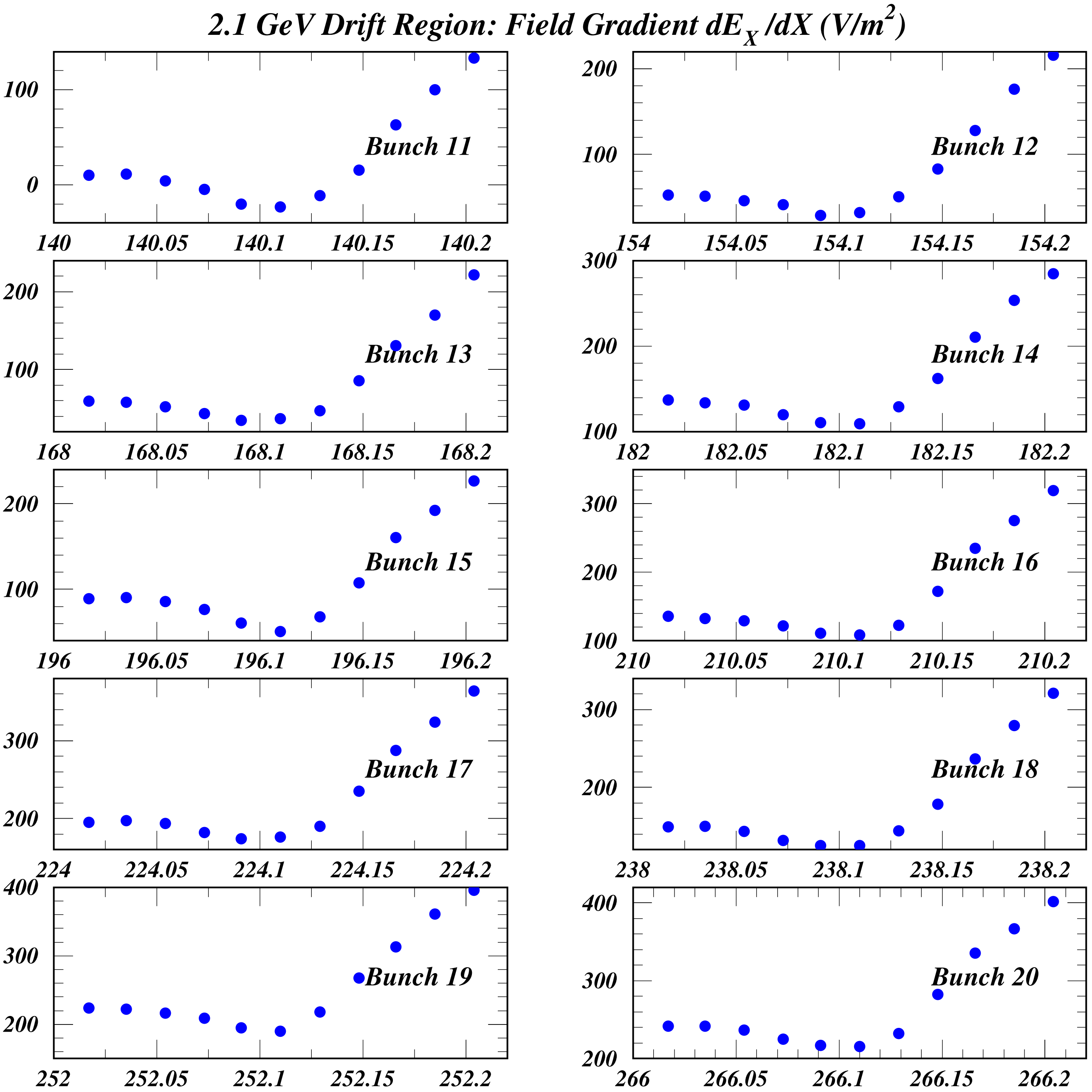
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
0
200
400
Time (ns)
dE_X/dX at Center (kV/m^2)



6
5
4
3
2
1
0
-1
0
200
400
Time (ns)
dE_Y/dY at Center (kV/m^2)

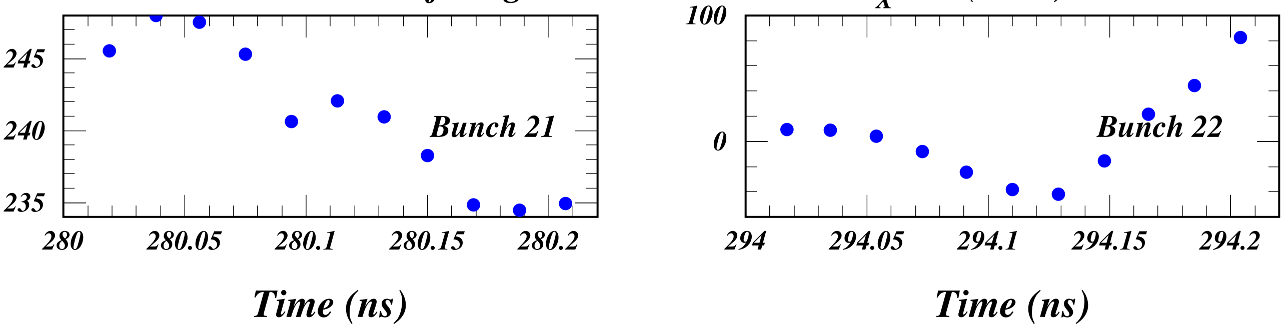


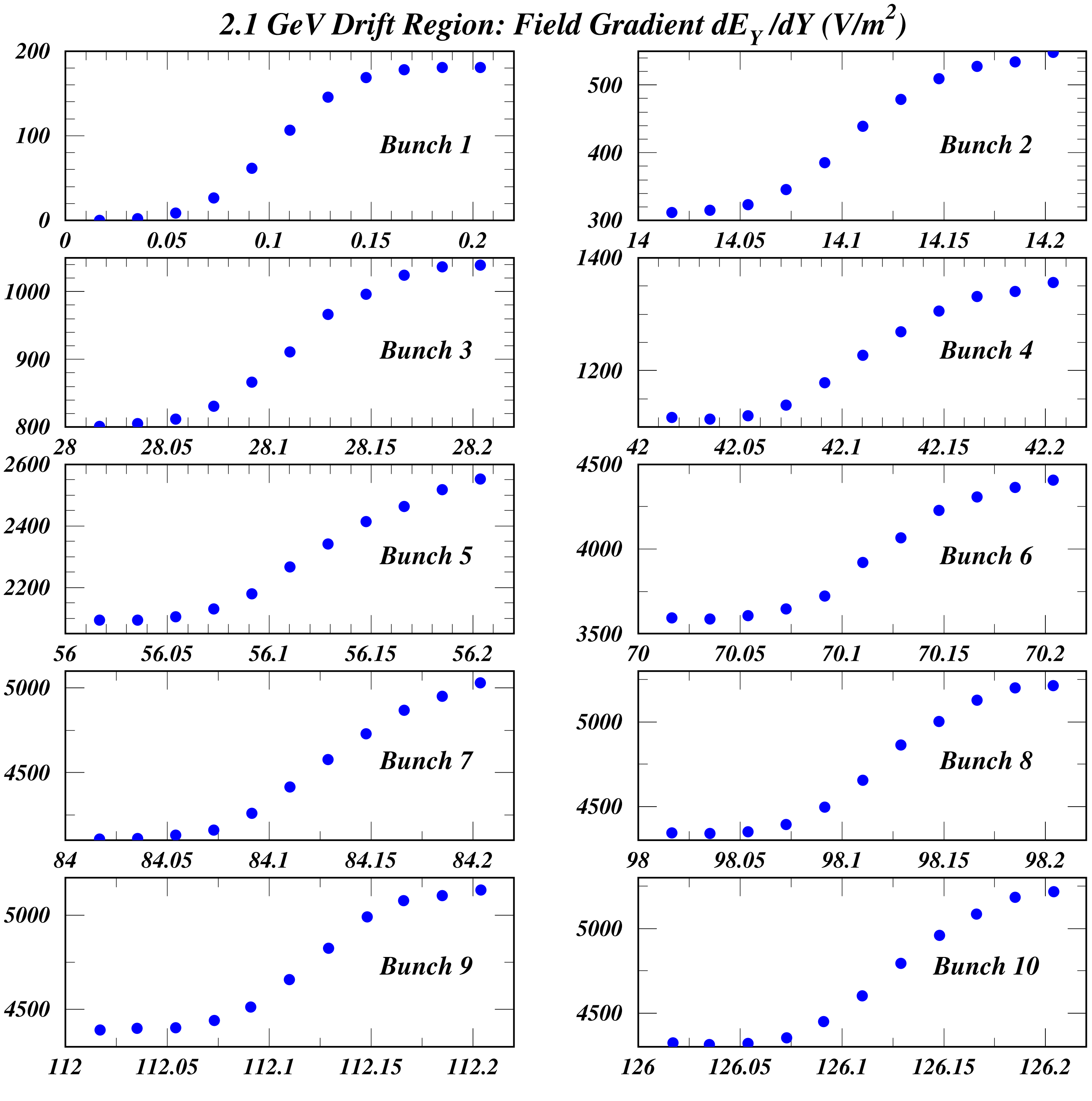
2.1 GeV Drift Region: Field Gradient dE_X/dX (V/m^2)
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10



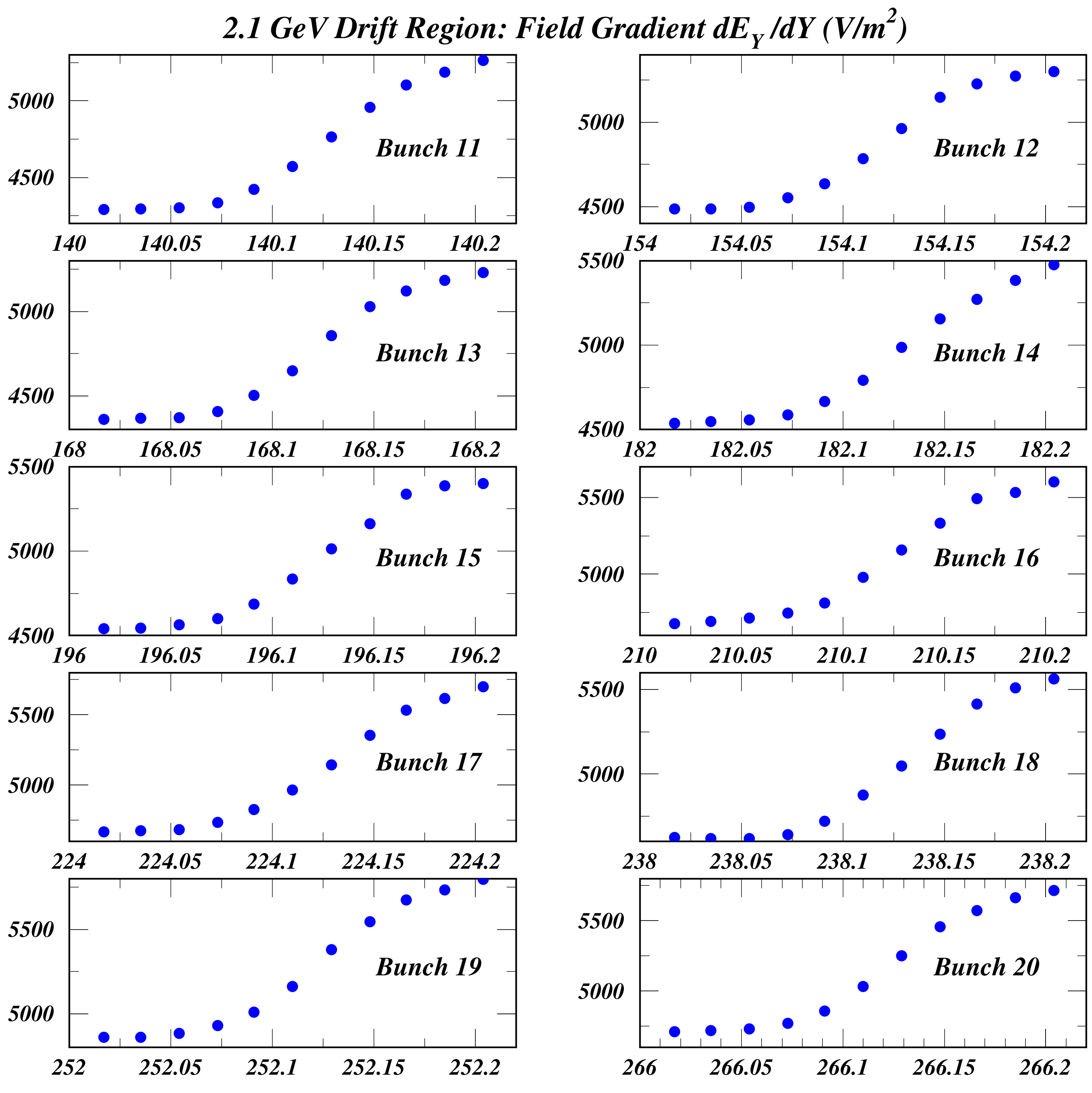
2.1 GeV Drift Region: Field Gradient dE_X/dX (V/m^2)
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20

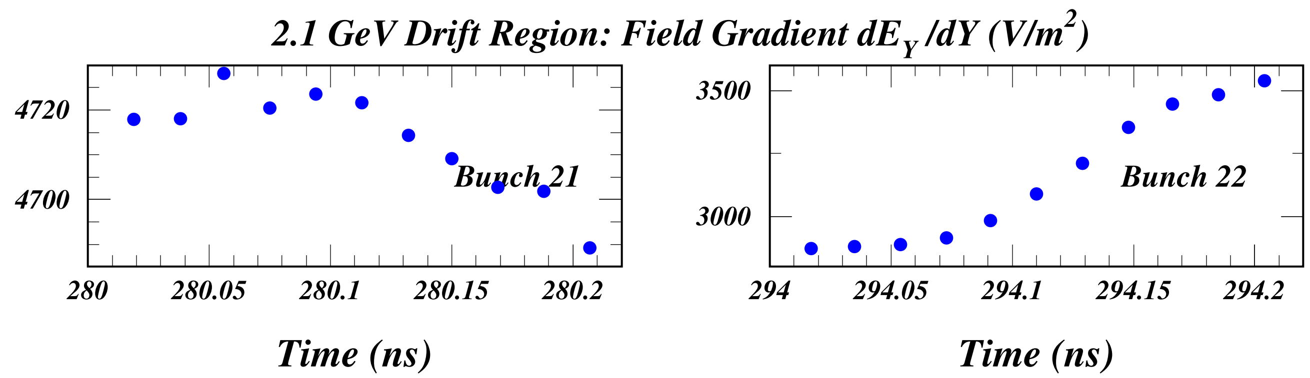
2.1 GeV Drift Region: Field Gradient dE_X/dX (V/m^2)



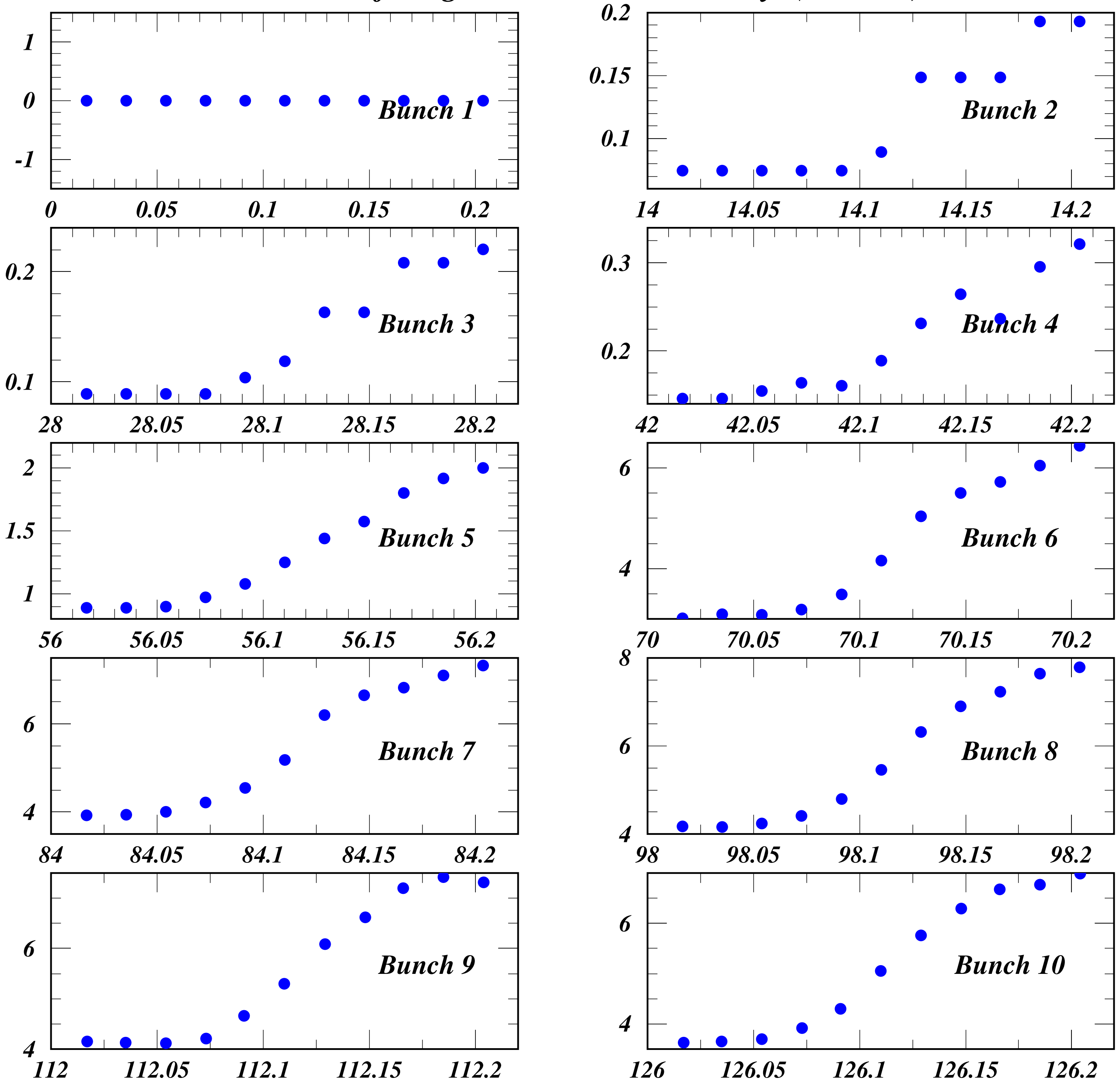


2.1 GeV Drift Region: Field Gradient dE_Y/dY (V/m^2)
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10
0
0.05
0.1
0.15
0.2
0
100
200
14
14.05
14.1
14.15
14.2
300
400
500
28
28.05
28.1
28.15
28.2
800
900
1000
42
42.05
42.1
42.15
42.2
1200
1400
56
56.05
56.1
56.15
56.2
2200
2400
2600
70
70.05
70.1
70.15
70.2
3500
4000
4500
84
84.05
84.1
84.15
84.2
4500
5000
98
98.05
98.1
98.15
98.2
4500
5000
112
112.05
112.1
112.15
112.2
4500
5000
126
126.05
126.1
126.15
126.2
4500
5000

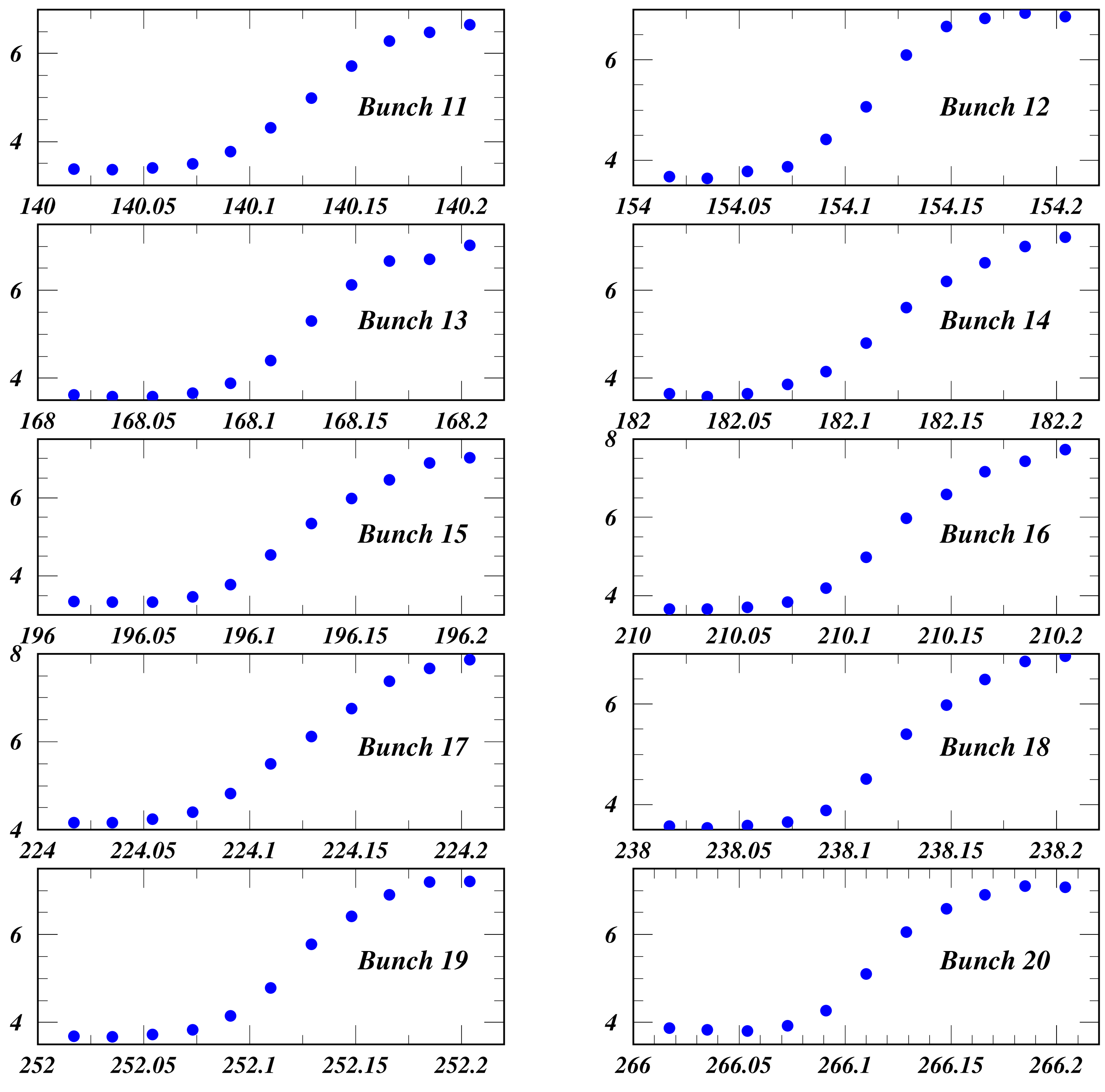

2.1 GeV Drift Region: Field Gradient dE_Y/dY (V/m^2)
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20

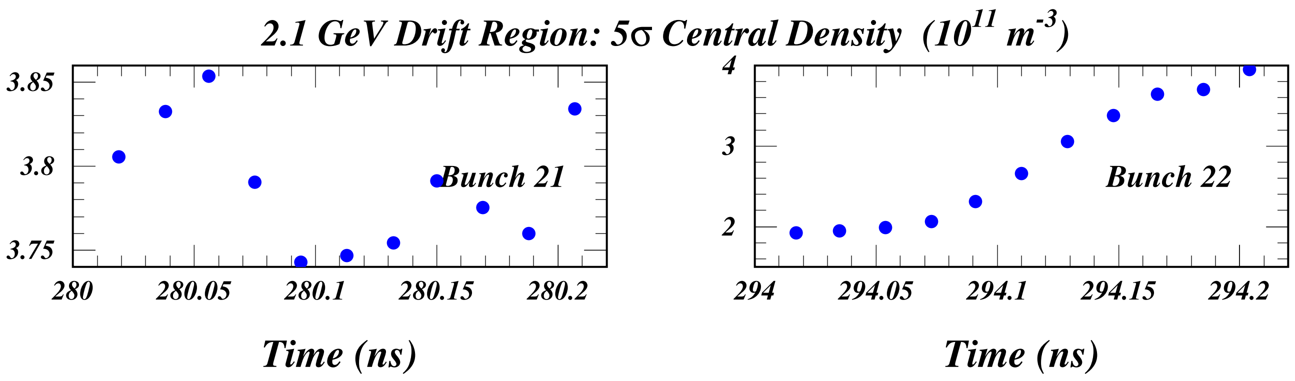

2.1 GeV Drift Region: Field Gradient dE_Y/dY (V/m^2)
4720
4700
280
280.05
280.1
280.15
280.2
Bunch 21
Time (ns)
3500
3000
294
294.05
294.1
294.15
294.2
Bunch 22
Time (ns)

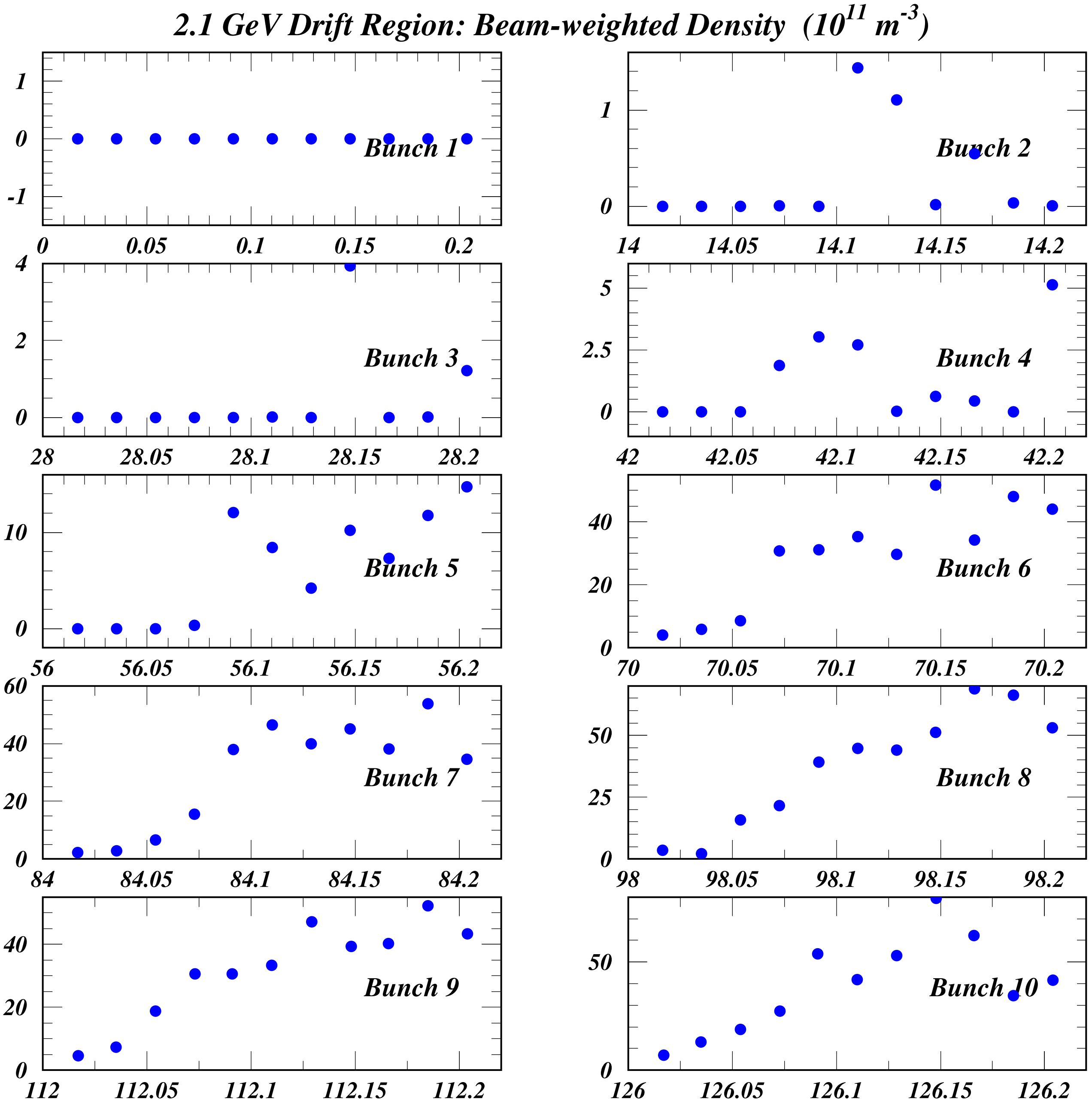
2.1 GeV Drift Region: 5σ Central Density ($10^{11}\ m^{-3}$)



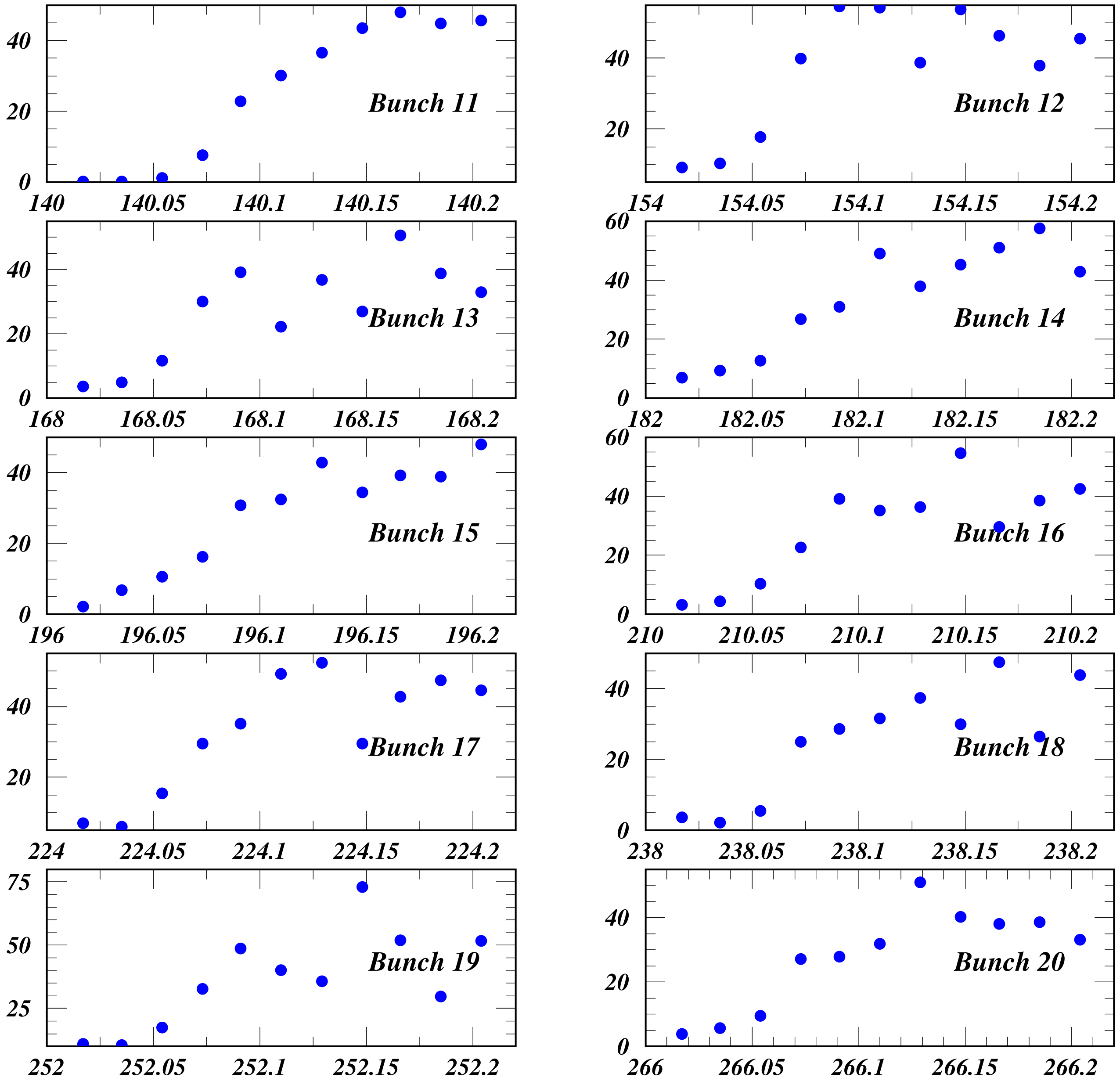
2.1 GeV Drift Region: 5σ Central Density ($10^{11}\ m^{-3}$)

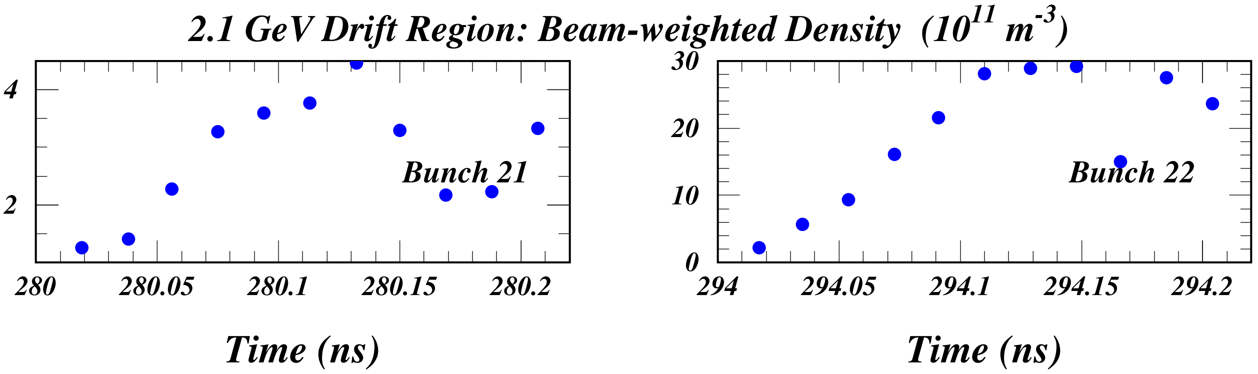



2.1 GeV Drift Region: 5σ Central Density (10^11 m^-3)
Bunch 21
3.85
3.8
3.75
280
280.05
280.1
280.15
280.2
Time (ns)
Bunch 22
4
3
2
294
294.05
294.1
294.15
294.2
Time (ns)


2.1 GeV Drift Region: 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 Drift Region: Beam-weighted Density (10^{11} m^{-3})




2.1 GeV Drift Region: Beam-weighted Density (10^11 m^-3)
Bunch 21
Bunch 22
280
280.05
280.1
280.15
280.2
294
294.05
294.1
294.15
294.2
Time (ns)
Time (ns)