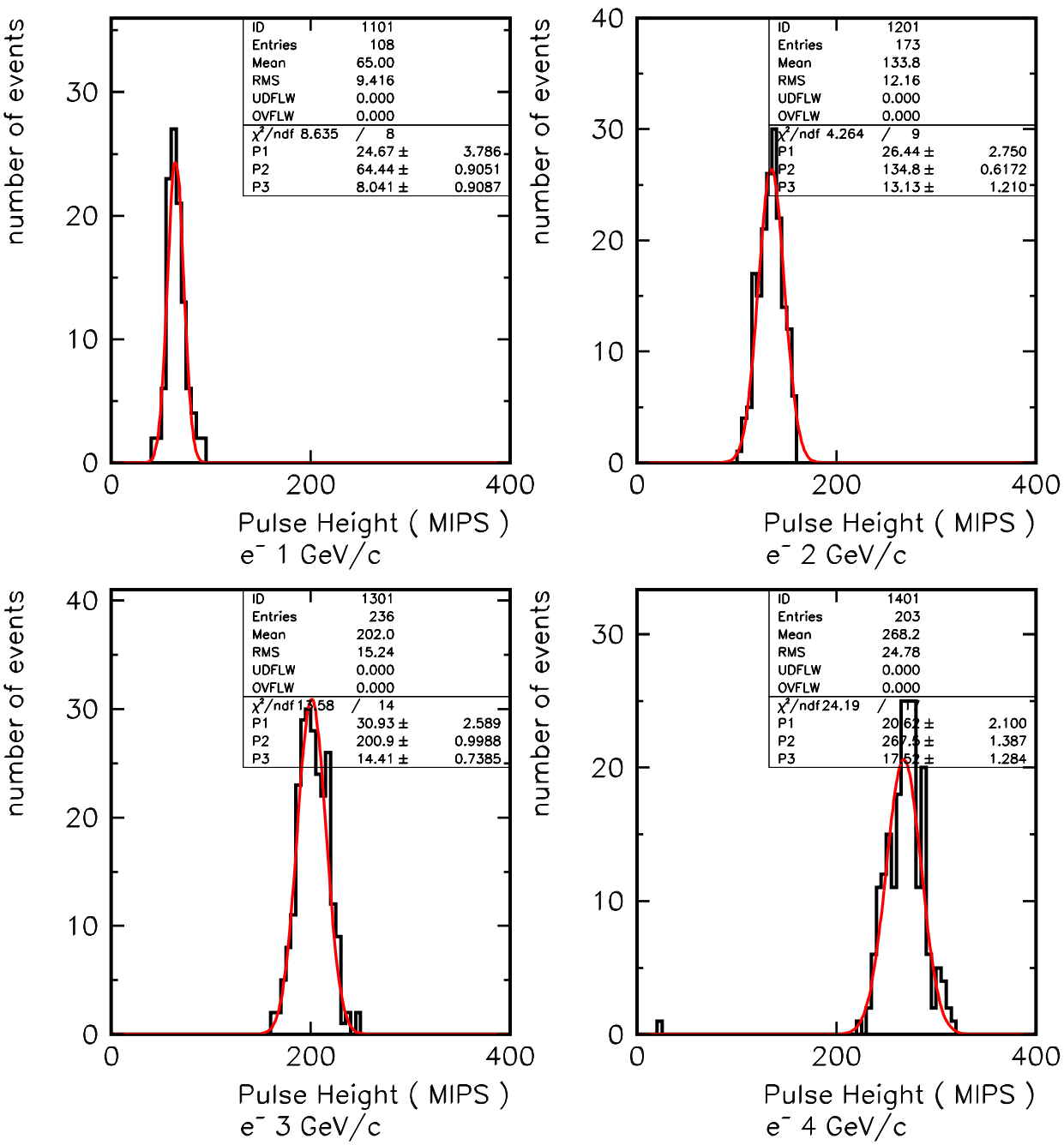
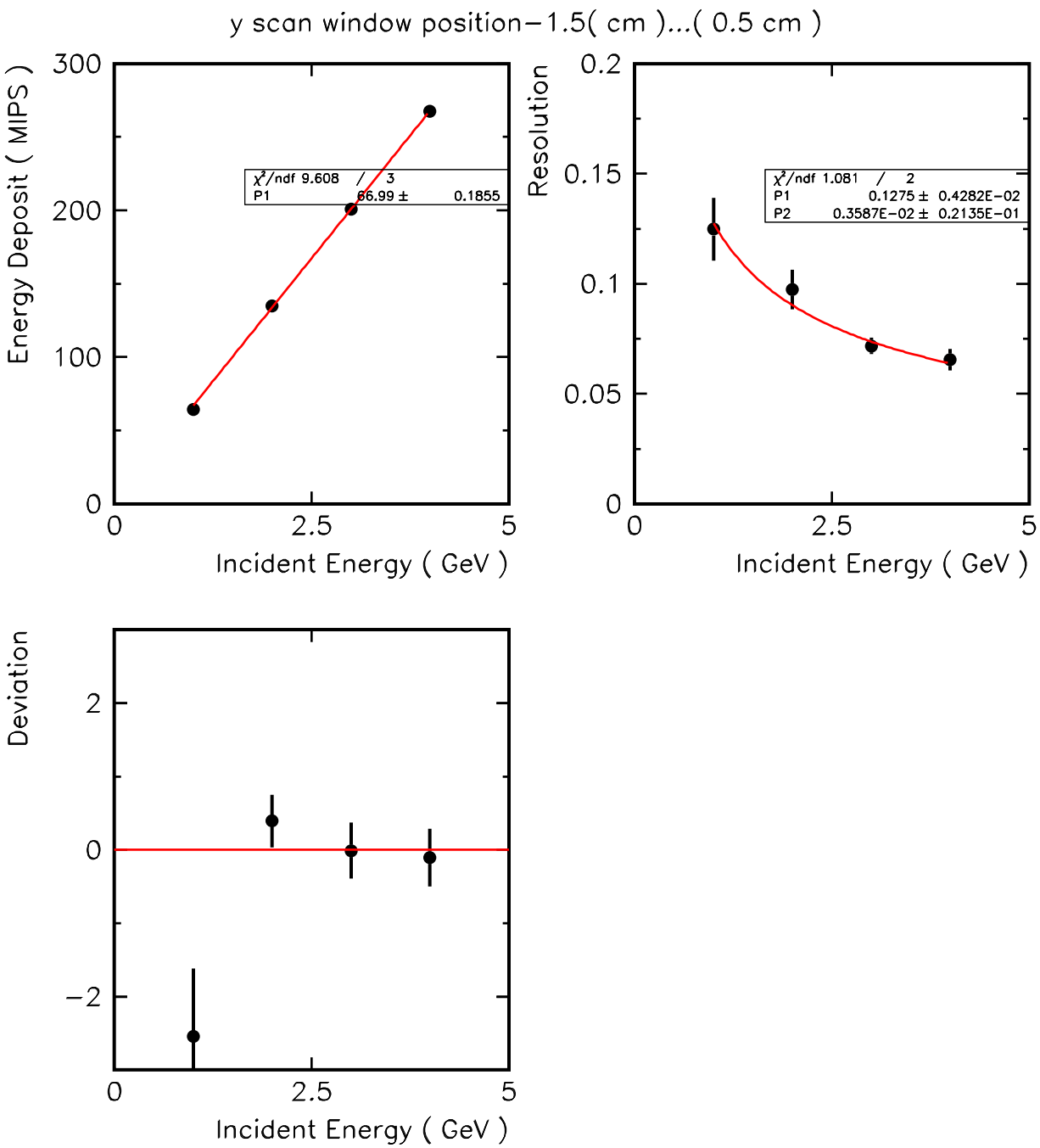
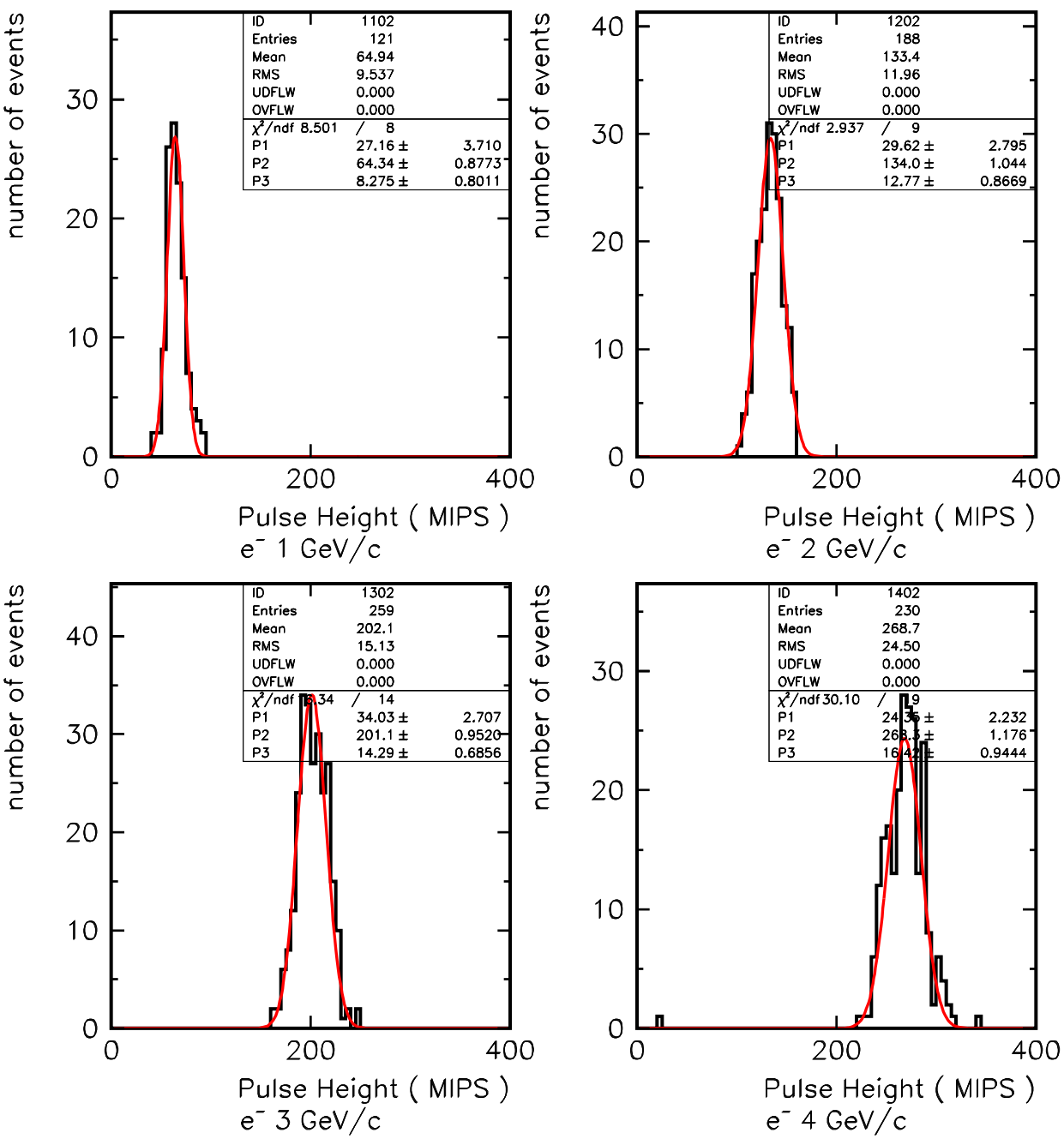
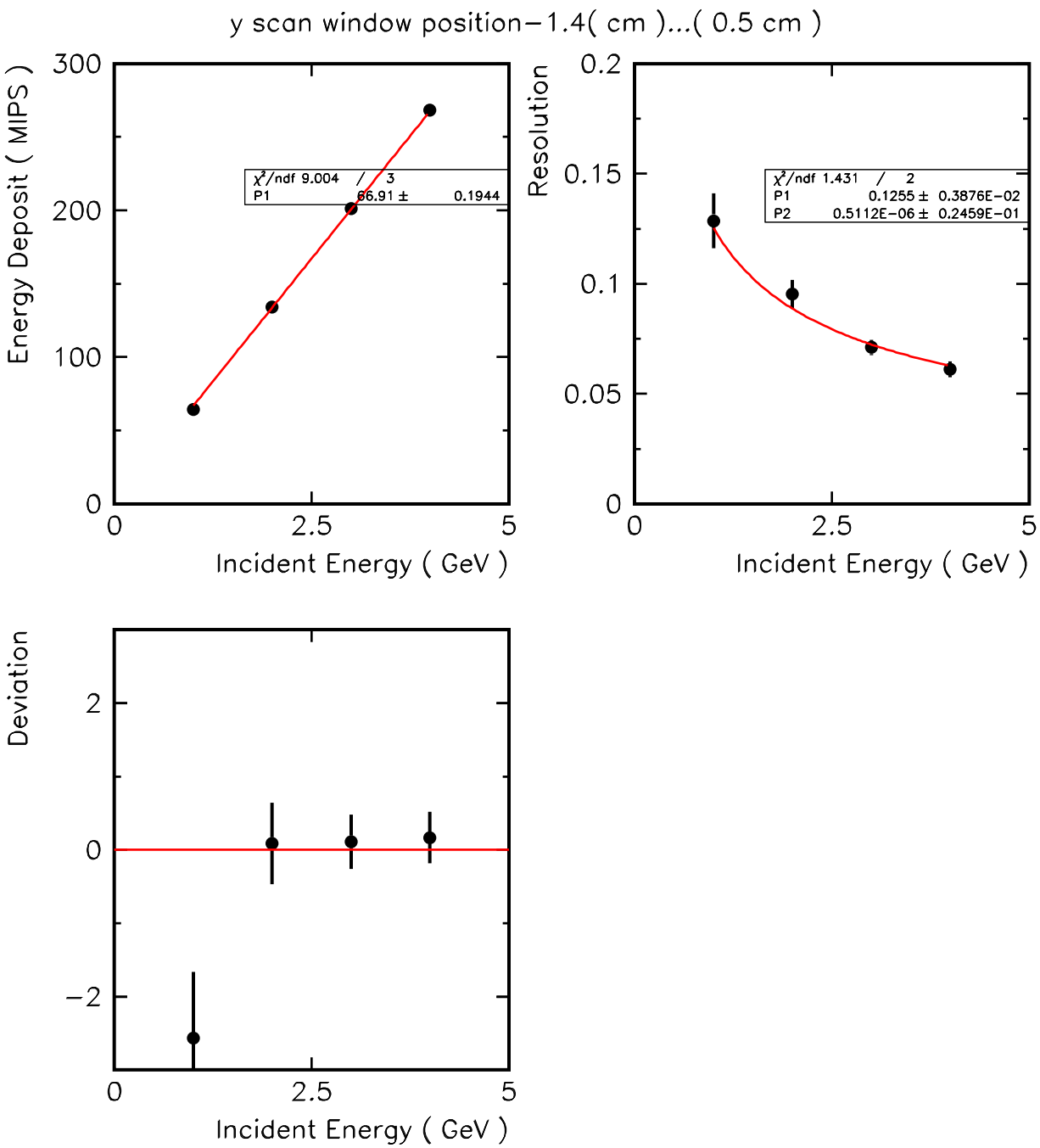
y scan window position−1.5(cm)...(0.5 cm)



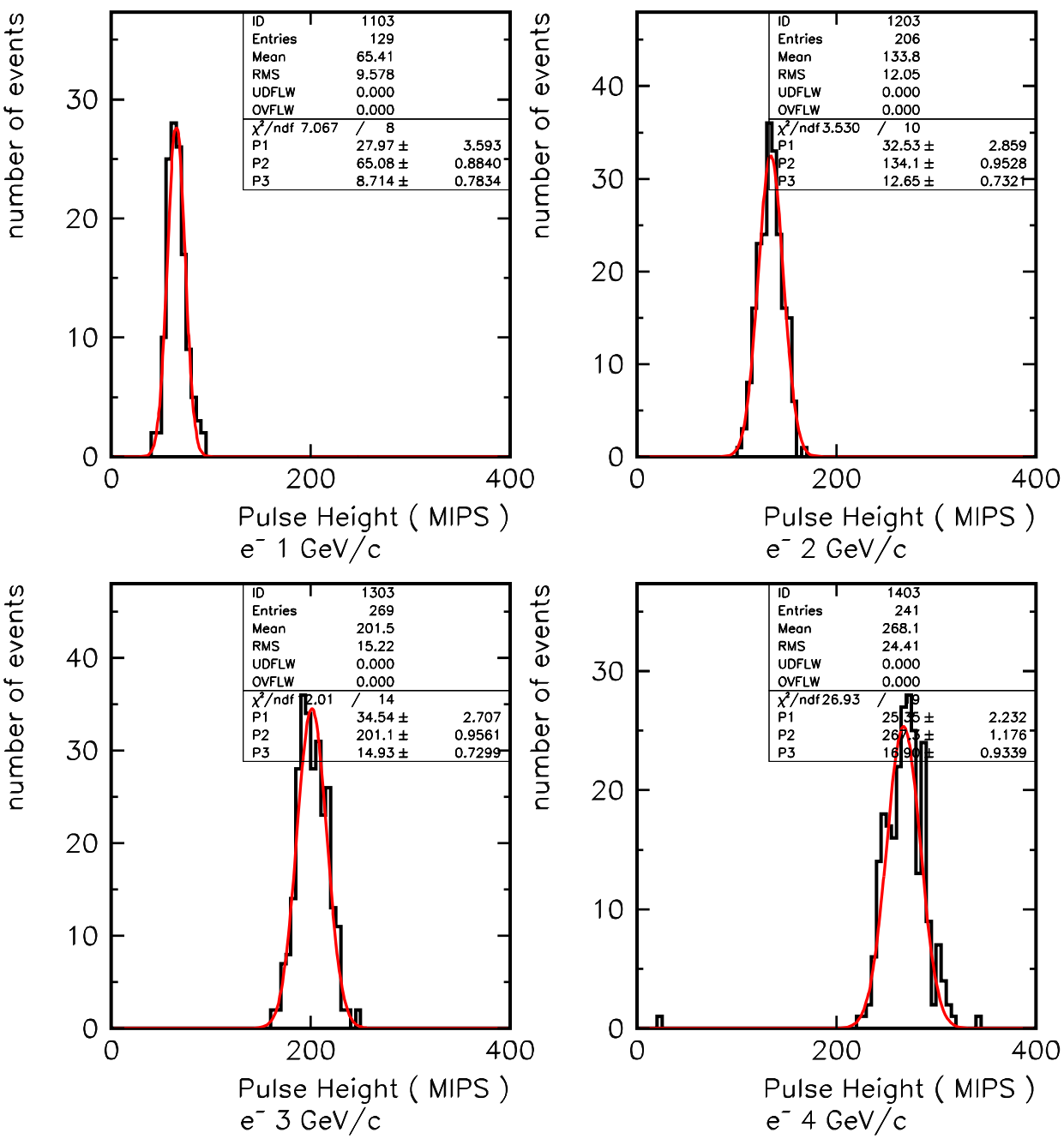

y scan window position−1.5(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 9.608 / 3
P1 66.99 ± 0.1855
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 1.081 / 2
P1 0.1275 ± 0.4282E−02
P2 0.3587E−02 ± 0.2135E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

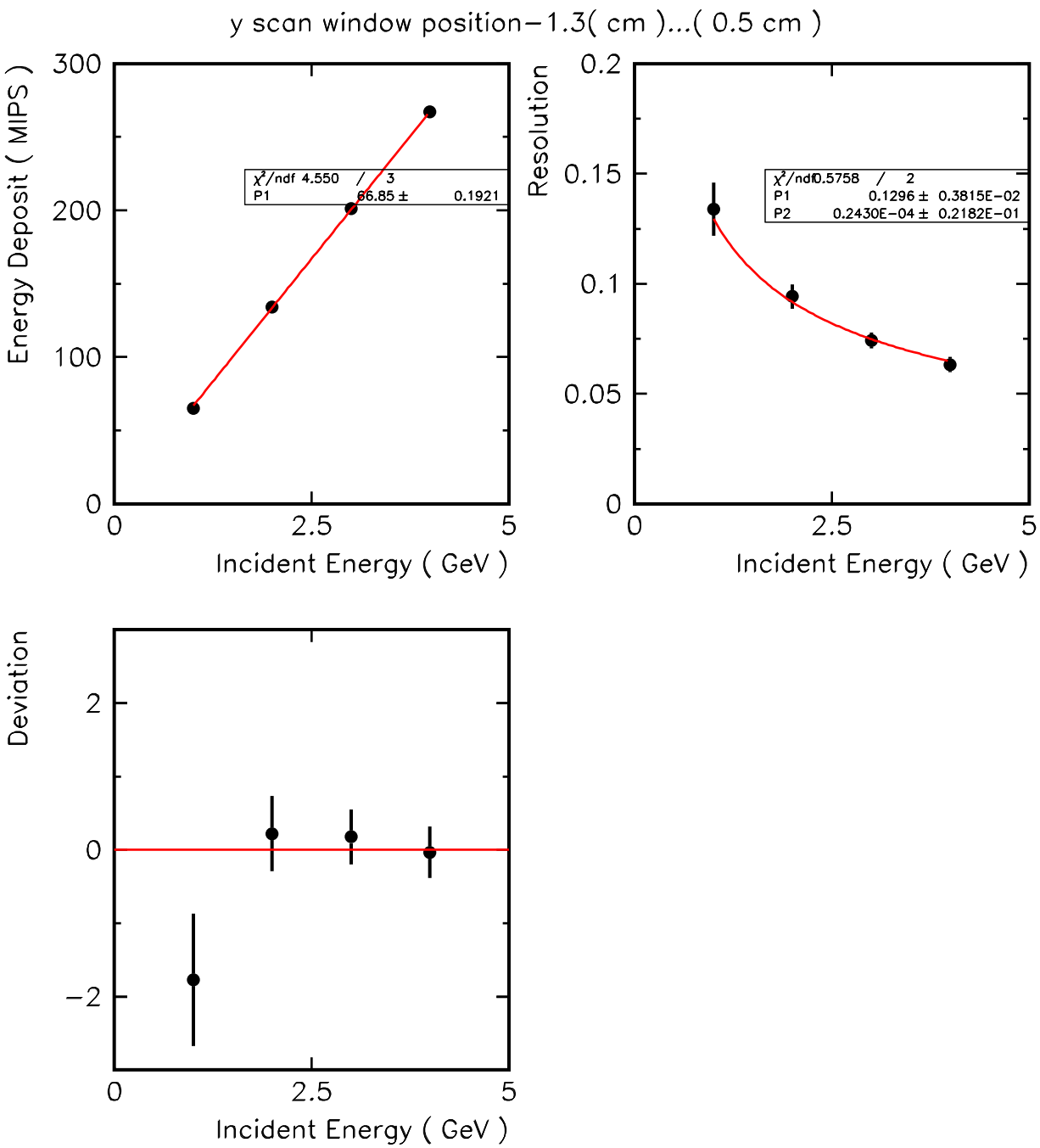
y scan window position−1.4(cm)...(0.5 cm)



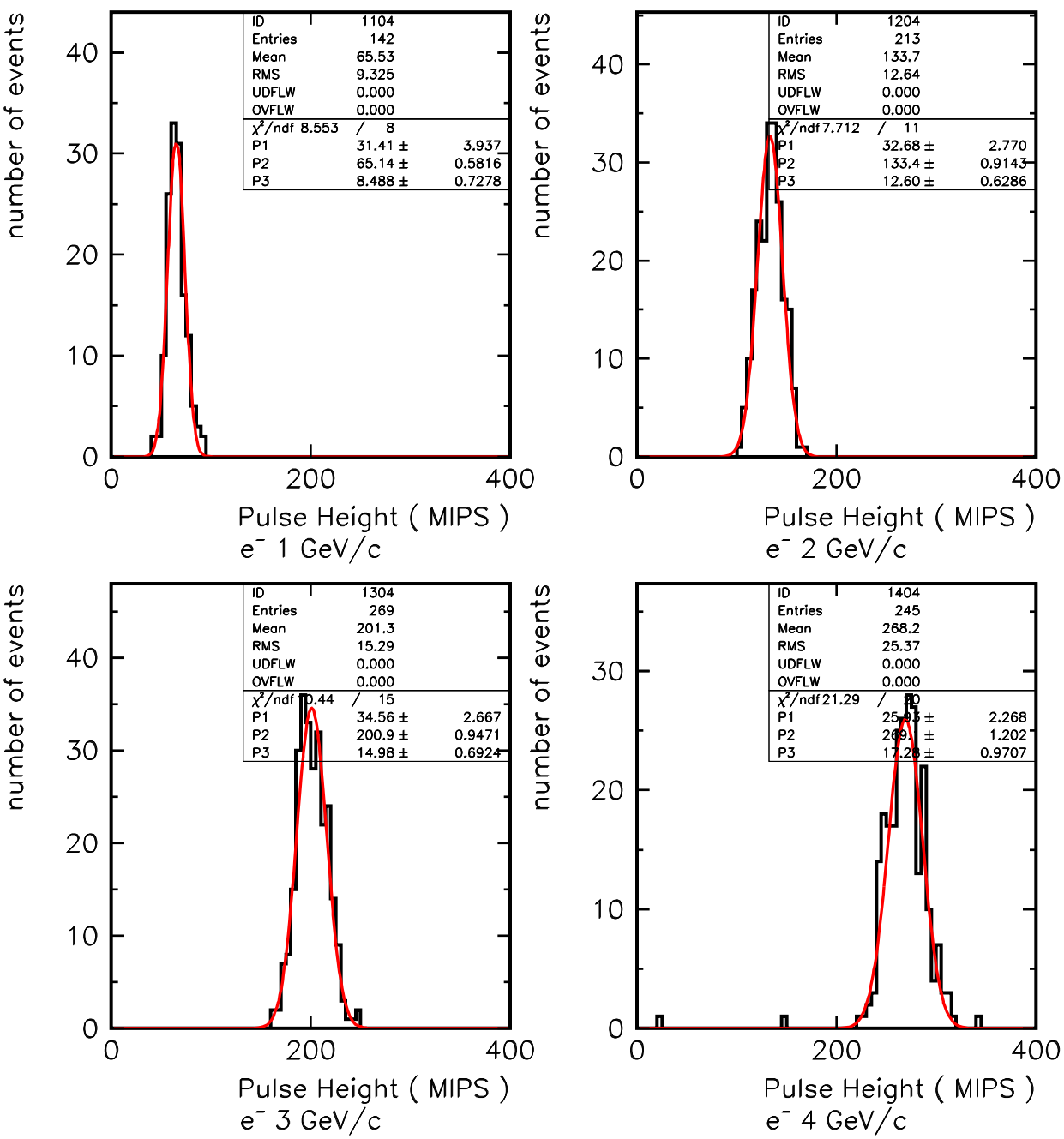

y scan window position−1.4(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 9.004 / 3
P1 66.91 ± 0.1944
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 1.431 / 2
P1 0.1255 ± 0.3876E−02
P2 0.5112E−06 ± 0.2459E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

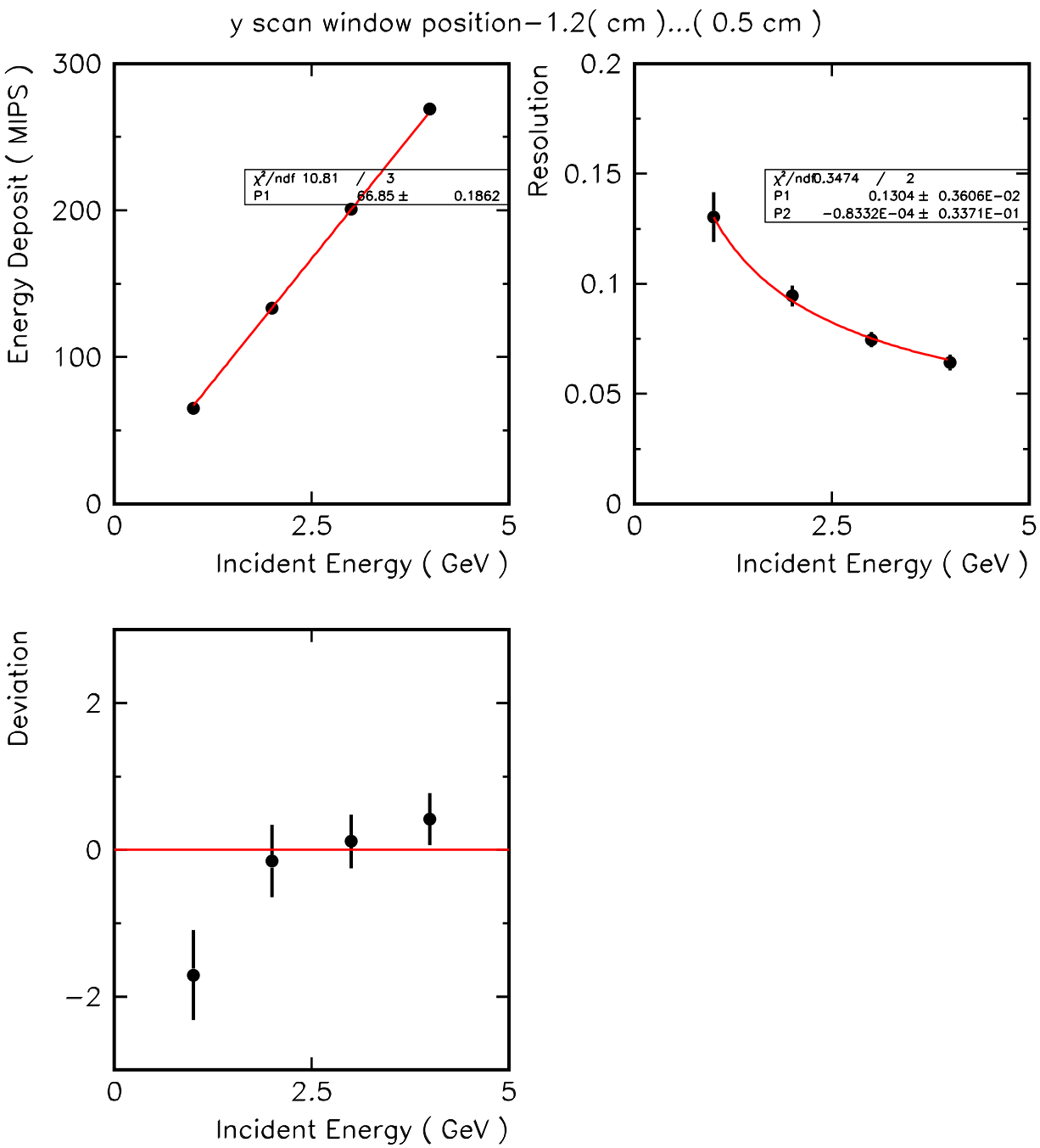
y scan window position−1.3(cm)...(0.5 cm)



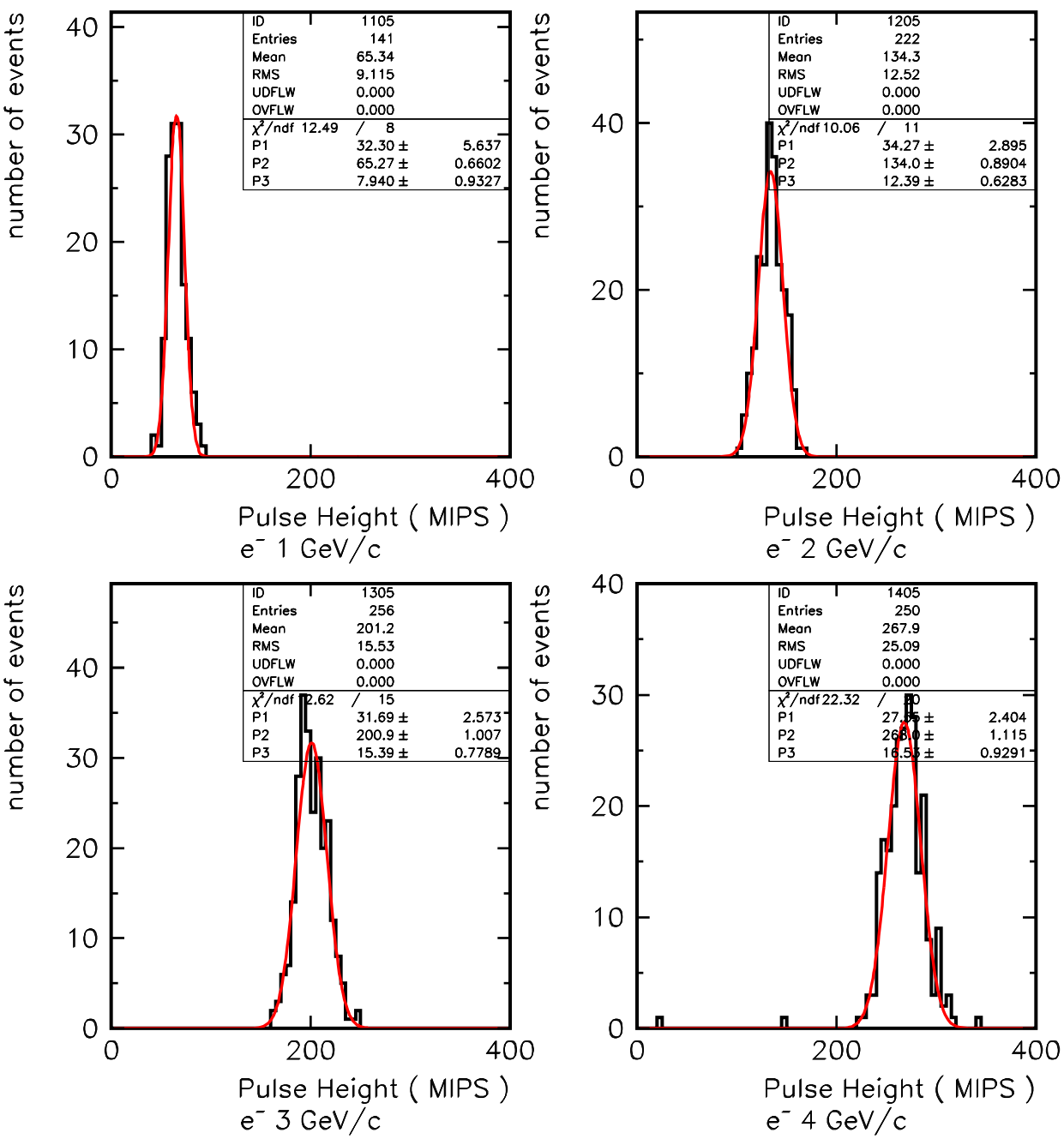

y scan window position−1.3(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.550 / 3
P1 66.85 ± 0.1921
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 0.5758 / 2
P1 0.1296 ± 0.3815E−02
P2 0.2430E−04 ± 0.2182E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

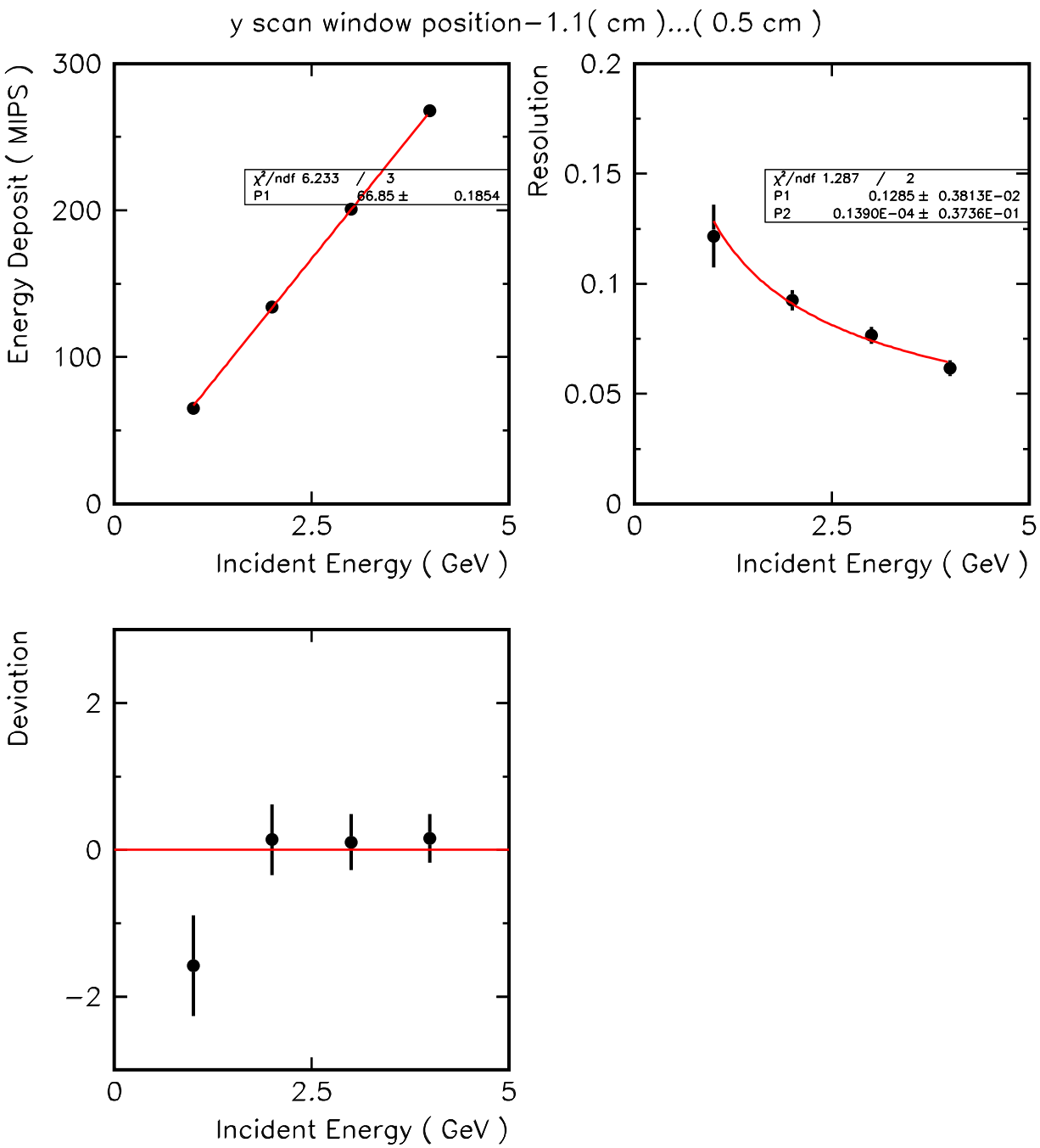
y scan window position−1.2(cm)...(0.5 cm)

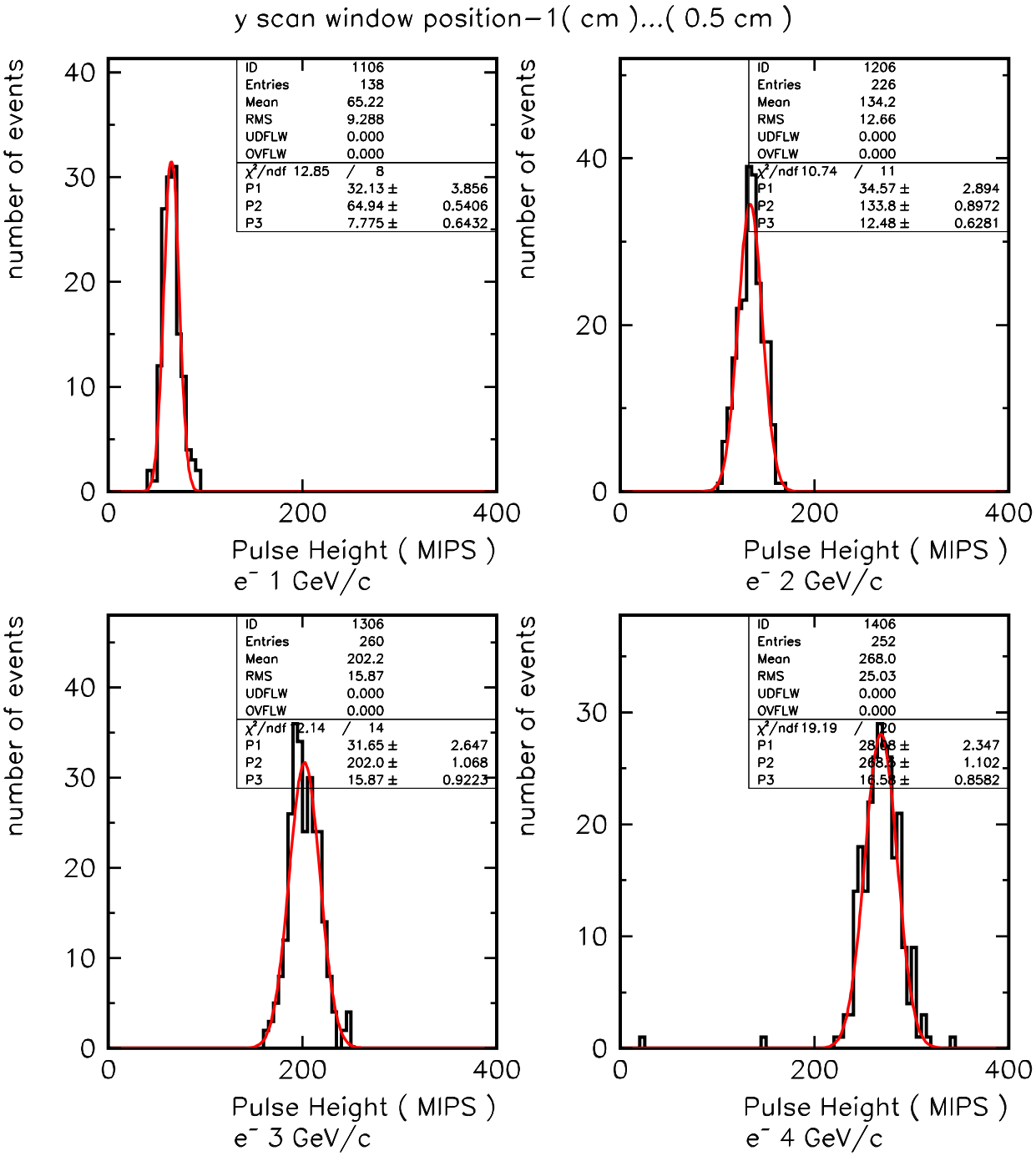


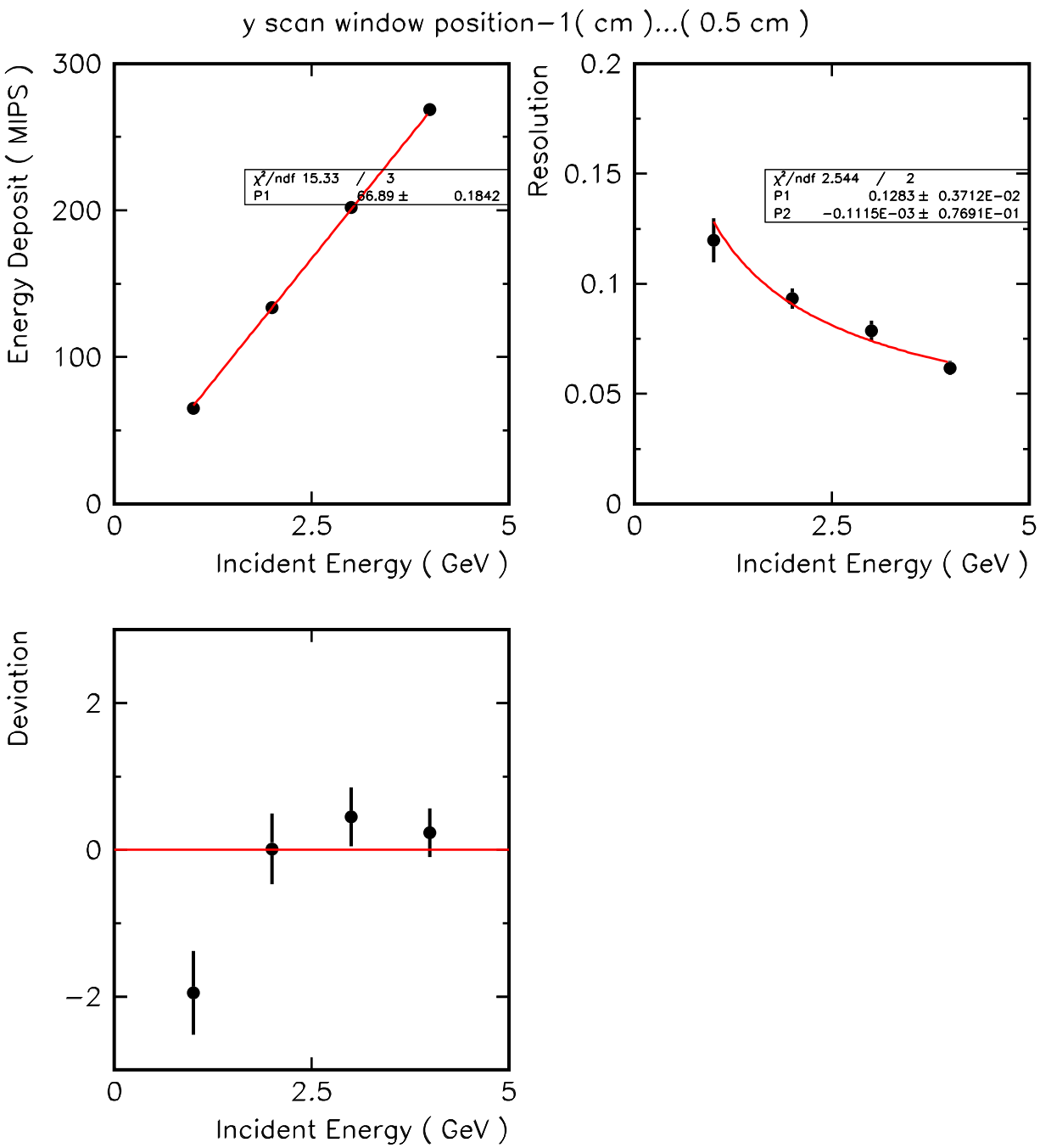

y scan window position−1.2(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 10.81 / 3
P1 66.85 ± 0.1862
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 0.3474 / 2
P1 0.1304 ± 0.3606E−02
P2 −0.8332E−04 ± 0.3371E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

y scan window position−1.1(cm)...(0.5 cm)

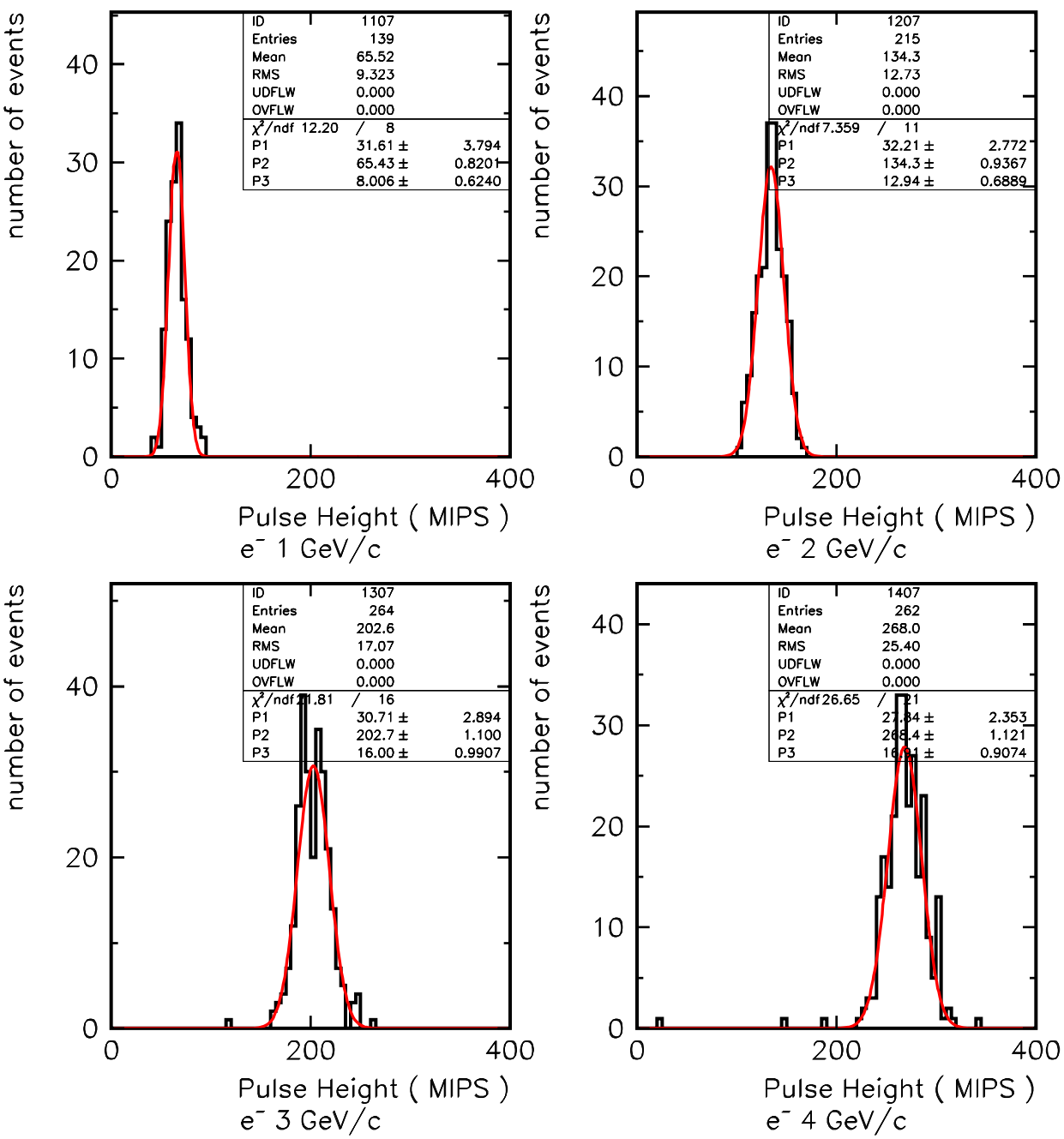


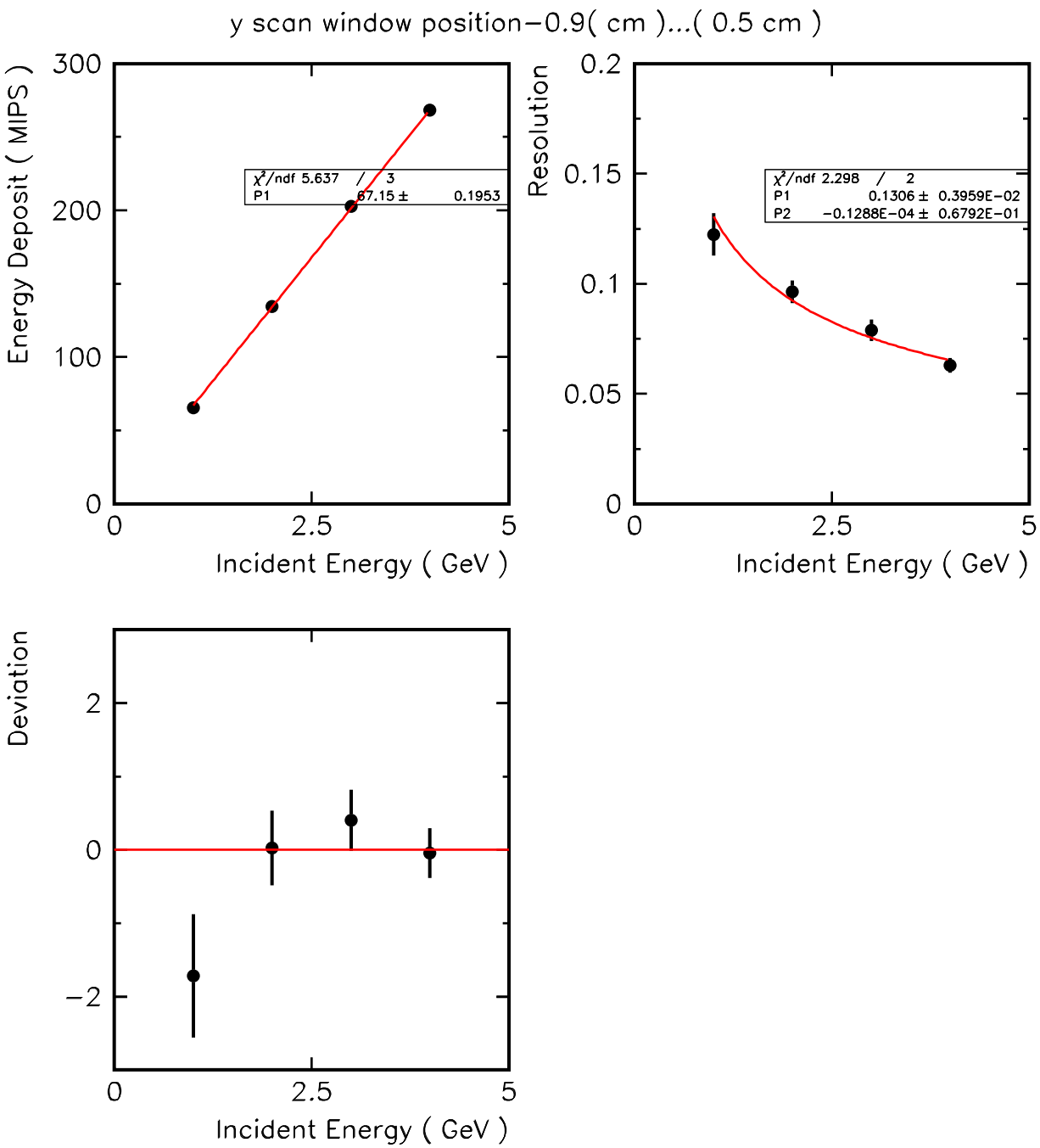

y scan window position−1.1(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.233 / 3
P1 66.85 ± 0.1854
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 1.287 / 2
P1 0.1285 ± 0.3813E−02
P2 0.1390E−04 ± 0.3736E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)


y scan window position−1(cm)...(0.5 cm)
number of events
ID 1106
Entries 138
Mean 65.22
RMS 9.288
UDFLW 0.000
OVFLW 0.000
χ²/ndf 12.85 / 8
P1 32.13 ± 3.856
P2 64.94 ± 0.5406
P3 7.775 ± 0.6432
Pulse Height (MIPS)
e⁻ 1 GeV/c
ID 1206
Entries 226
Mean 134.2
RMS 12.66
UDFLW 0.000
OVFLW 0.000
χ²/ndf 10.74 / 11
P1 34.57 ± 2.894
P2 133.8 ± 0.8972
P3 12.48 ± 0.6281
Pulse Height (MIPS)
e⁻ 2 GeV/c
ID 1306
Entries 260
Mean 202.2
RMS 15.87
UDFLW 0.000
OVFLW 0.000
χ²/ndf 12.14 / 14
P1 31.65 ± 2.647
P2 202.0 ± 1.068
P3 15.87 ± 0.9223
Pulse Height (MIPS)
e⁻ 3 GeV/c
ID 1406
Entries 252
Mean 268.0
RMS 25.03
UDFLW 0.000
OVFLW 0.000
χ²/ndf 19.19 / 20
P1 28.98 ± 2.347
P2 268.5 ± 1.102
P3 16.58 ± 0.8582
Pulse Height (MIPS)
e⁻ 4 GeV/c

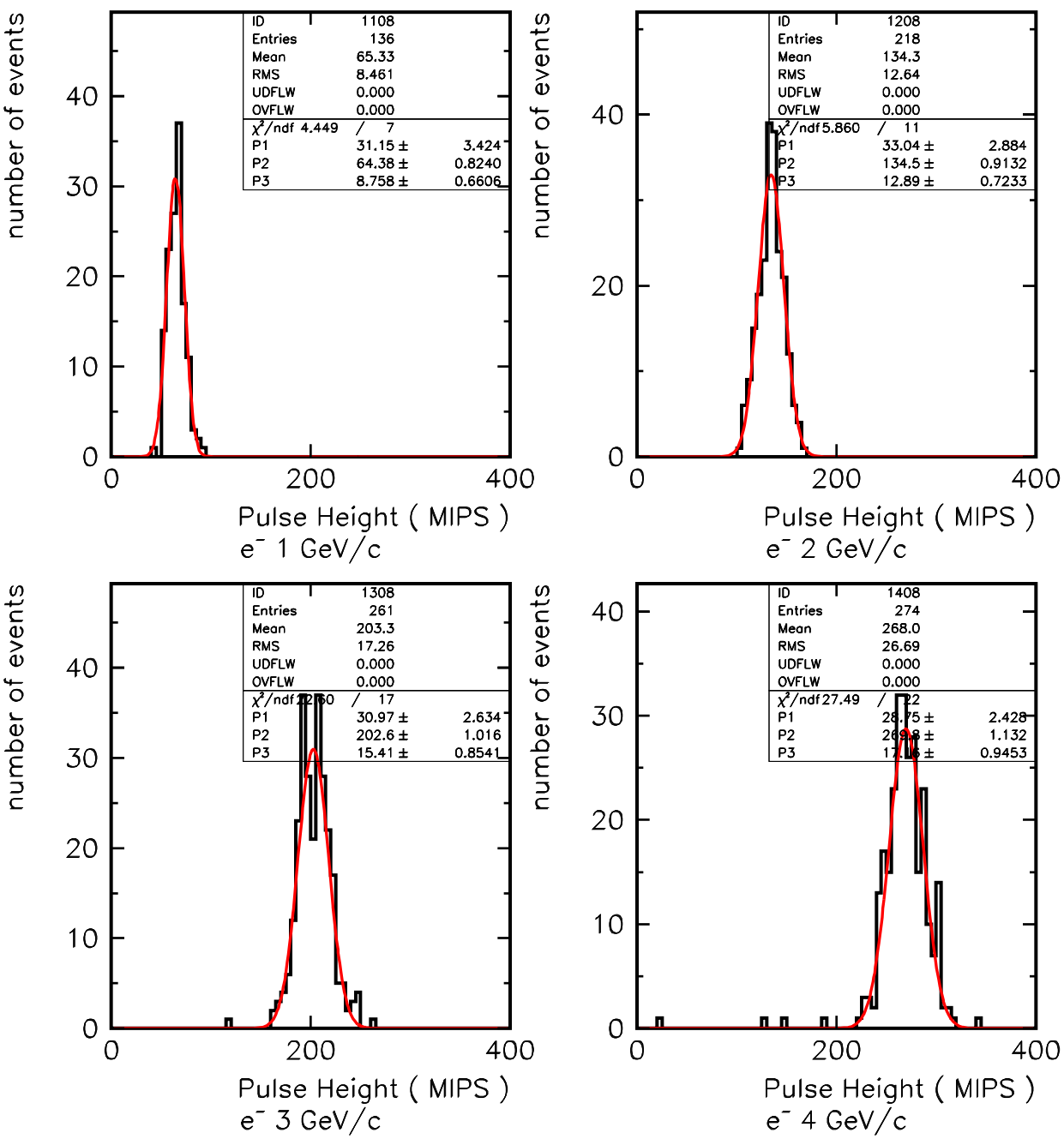

y scan window position−1(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 15.33 / 3
P1 66.89 ± 0.1842
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.544 / 2
P1 0.1283 ± 0.3712E−02
P2 −0.1115E−03 ± 0.7691E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

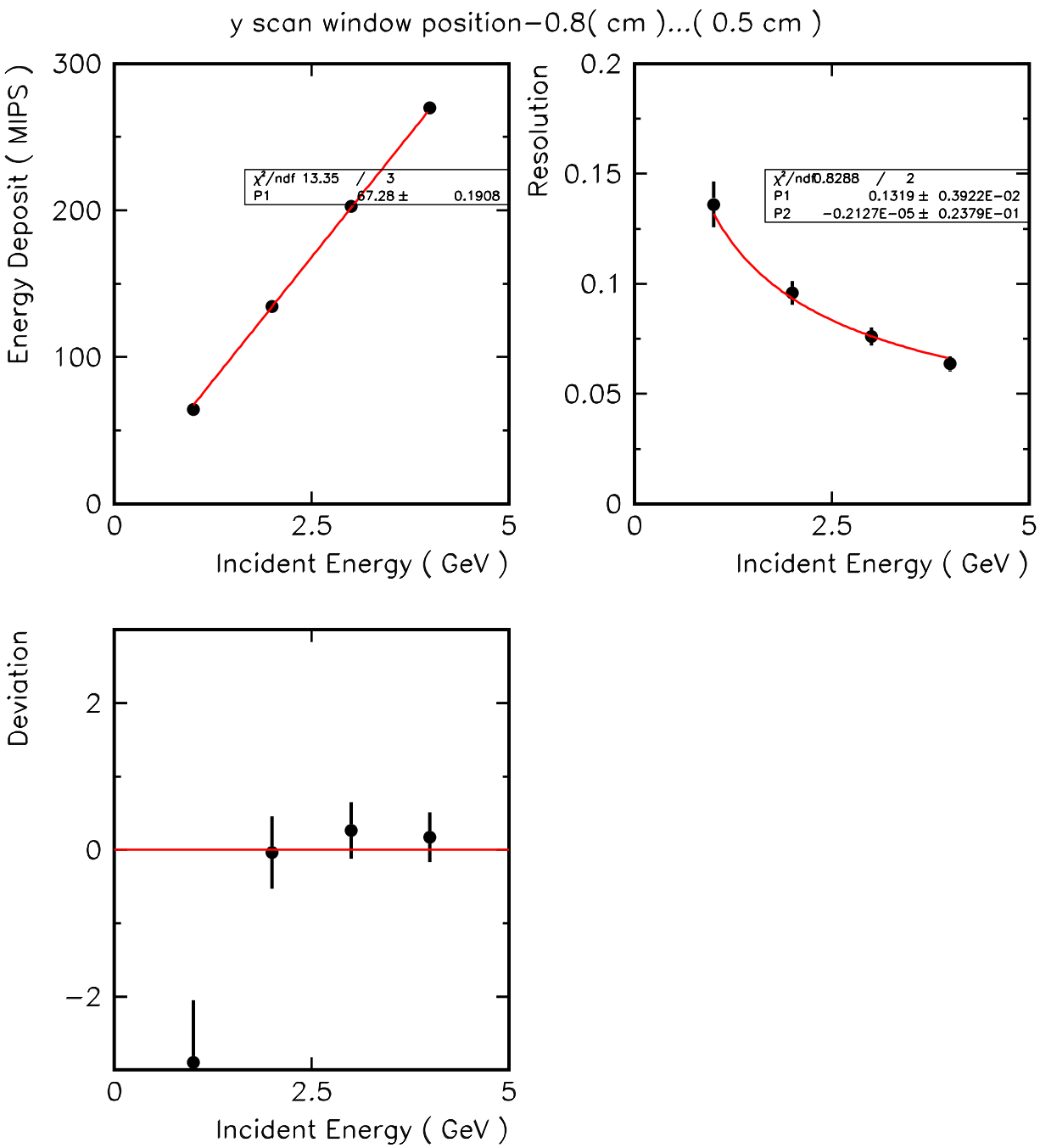
y scan window position−0.9(cm)...(0.5 cm)



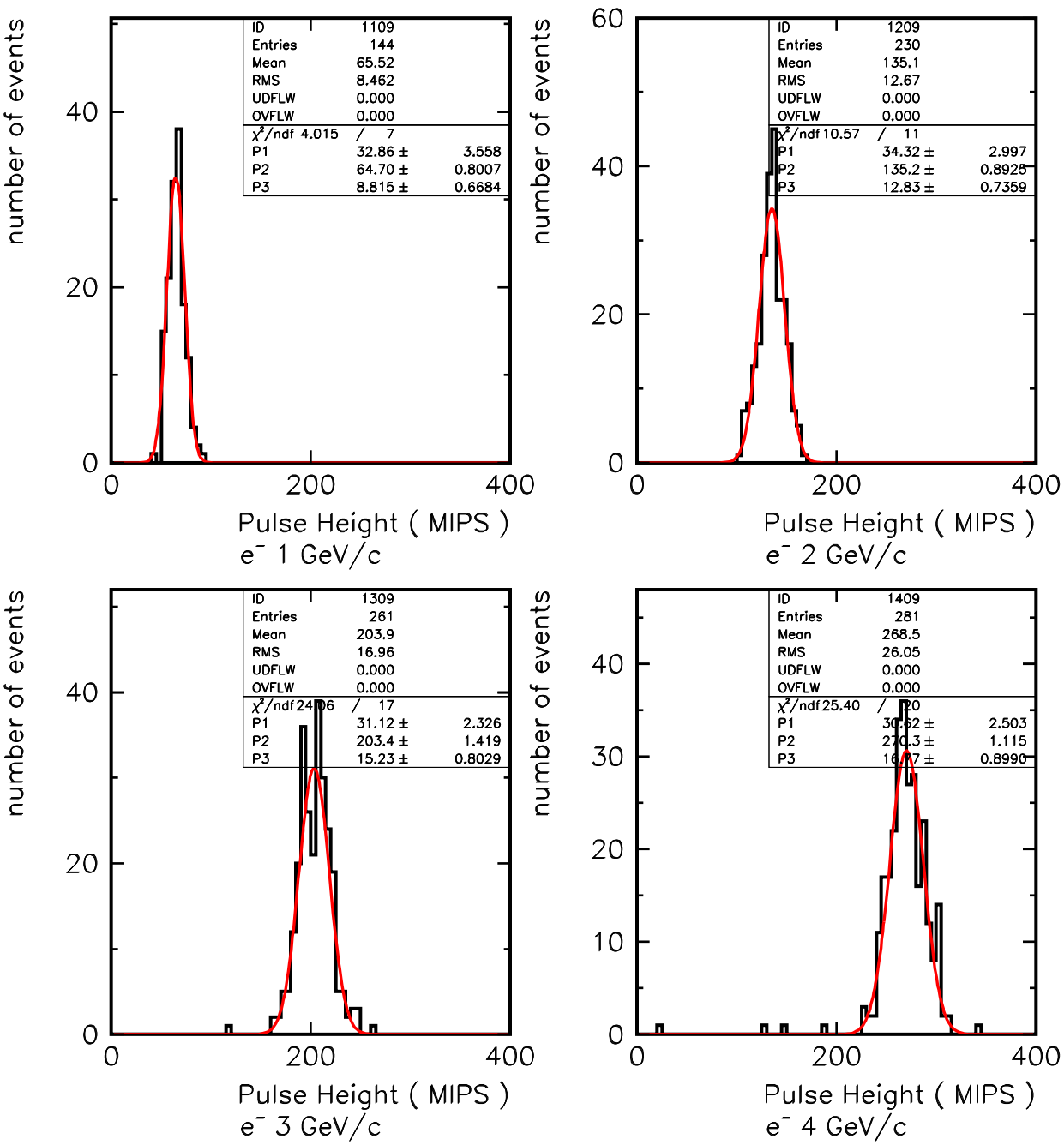

y scan window position−0.9(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 5.637 / 3
P1 67.15 ± 0.1953
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.298 / 2
P1 0.1306 ± 0.3959E−02
P2 −0.1288E−04 ± 0.6792E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

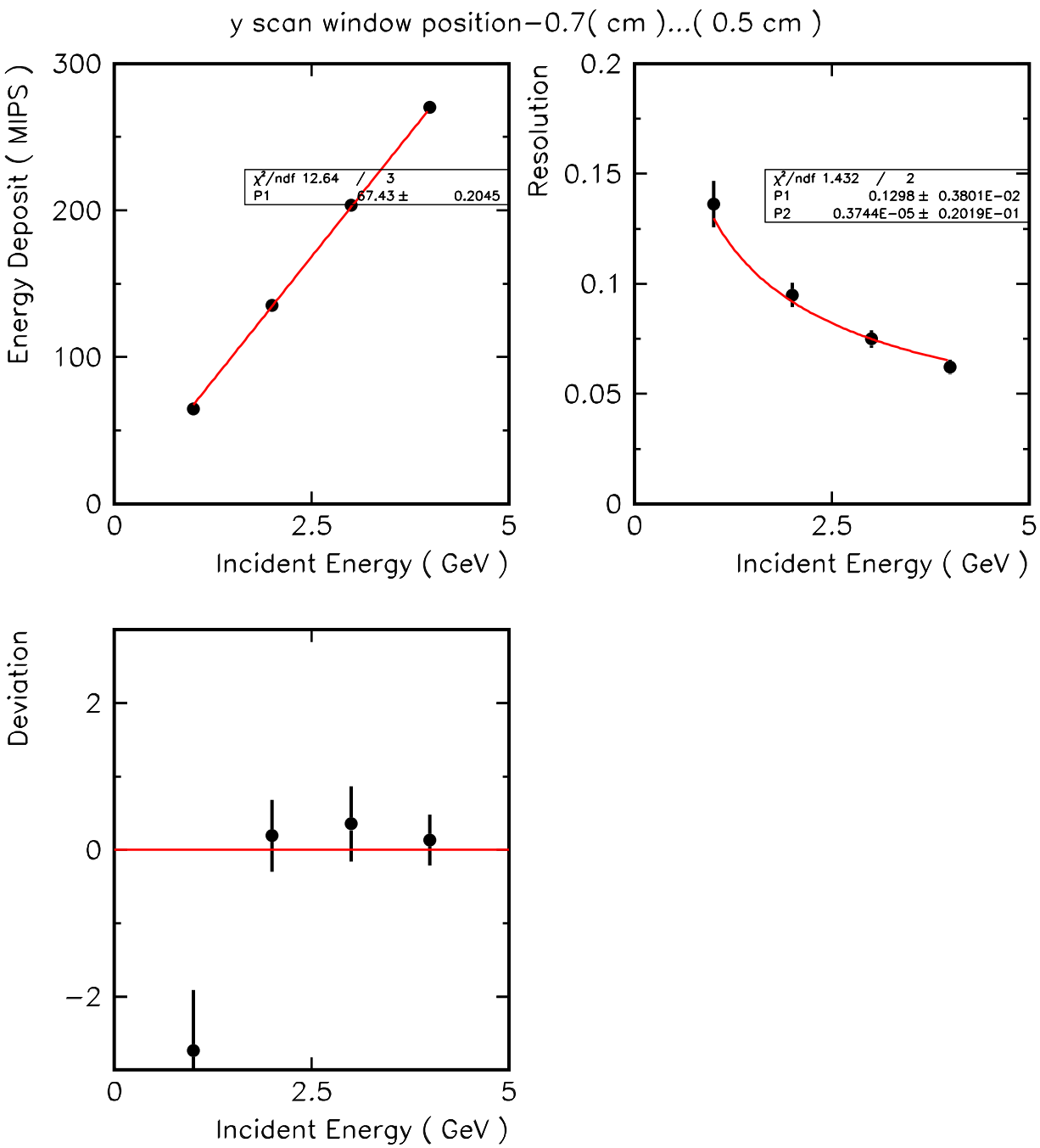
y scan window position−0.8(cm)...(0.5 cm)



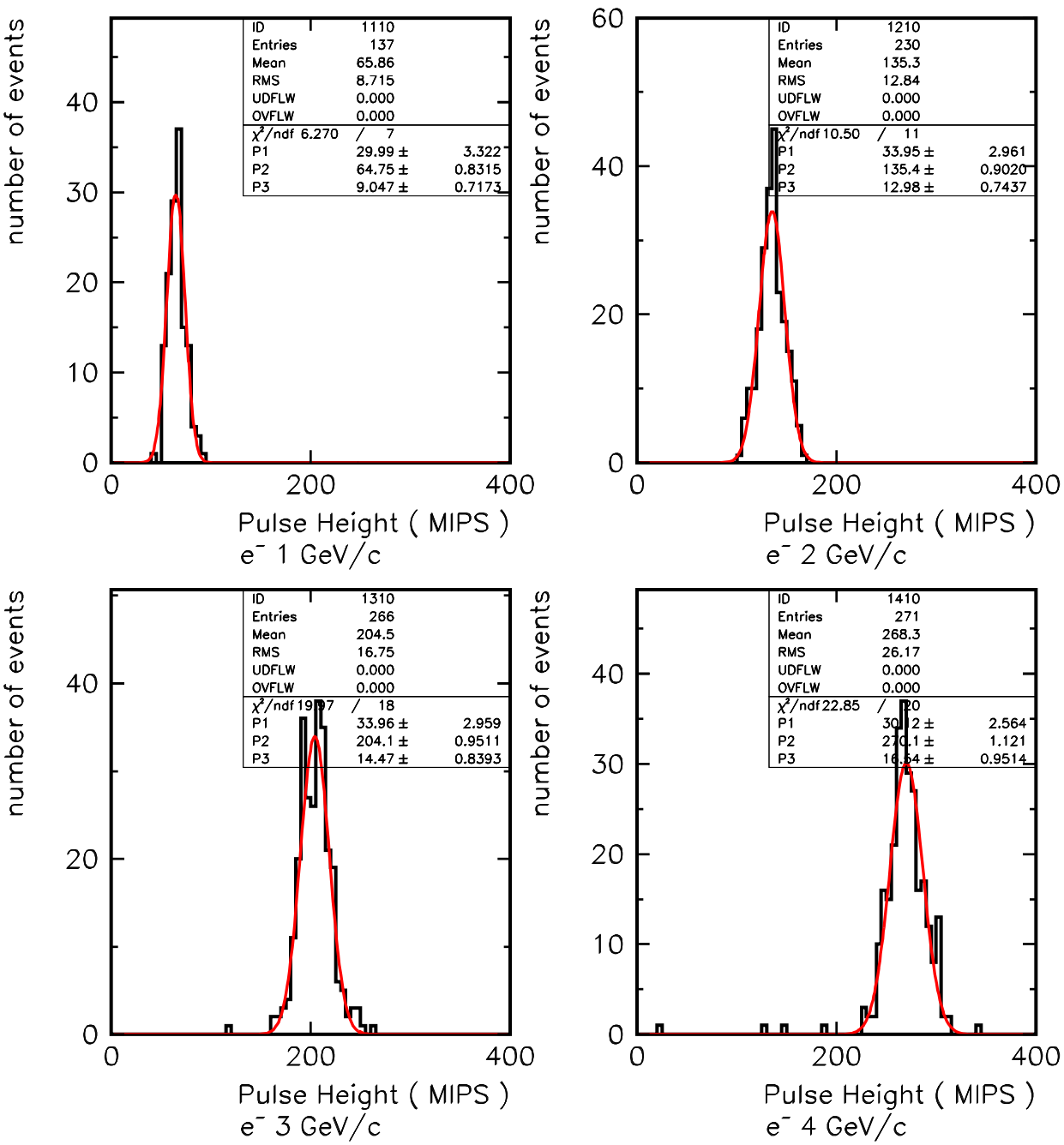

y scan window position−0.8(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 13.35 / 3
P1 67.28 ± 0.1908
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 0.8288 / 2
P1 0.1319 ± 0.3922E−02
P2 −0.2127E−05 ± 0.2379E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

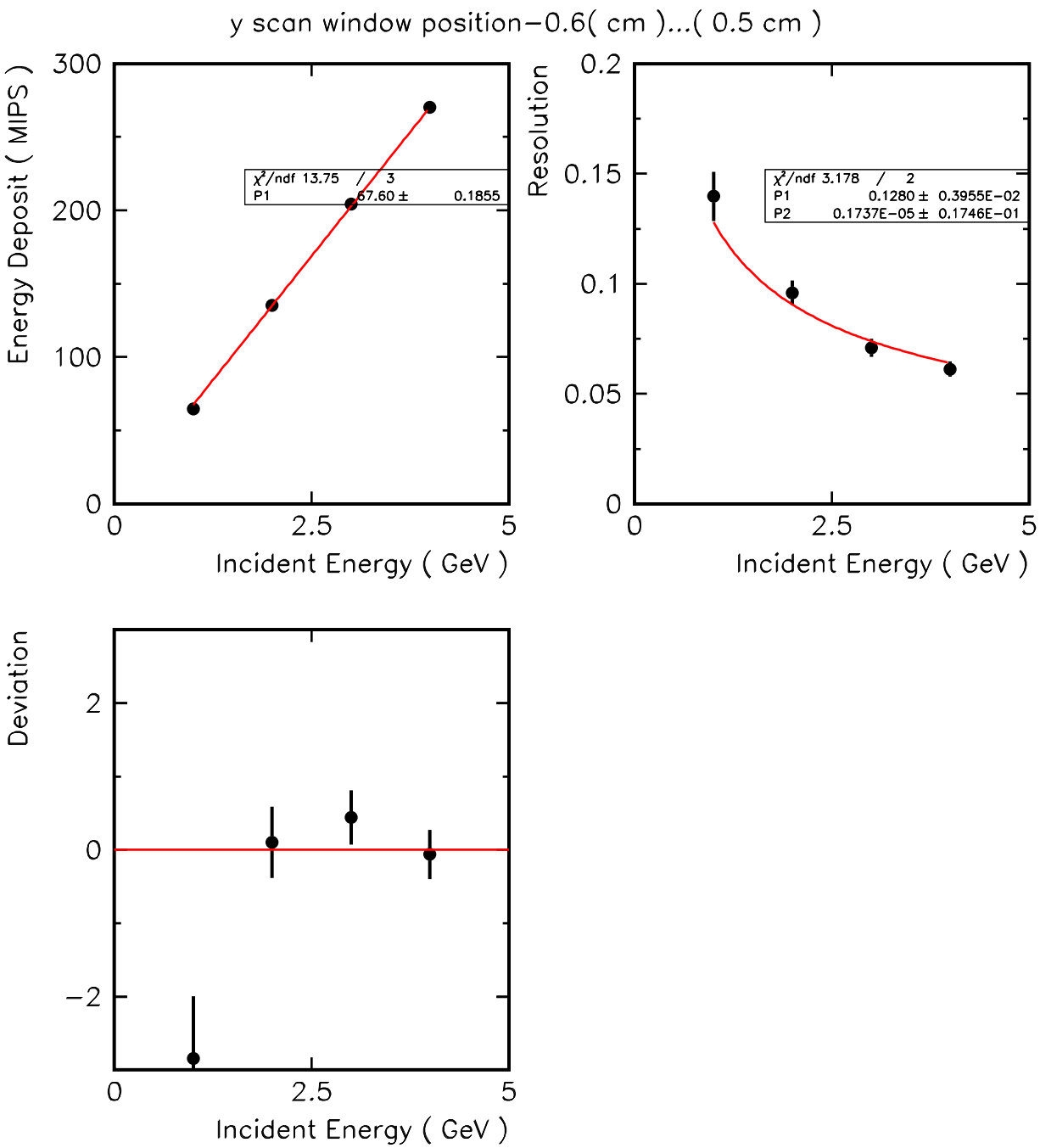
y scan window position−0.7(cm)...(0.5 cm)



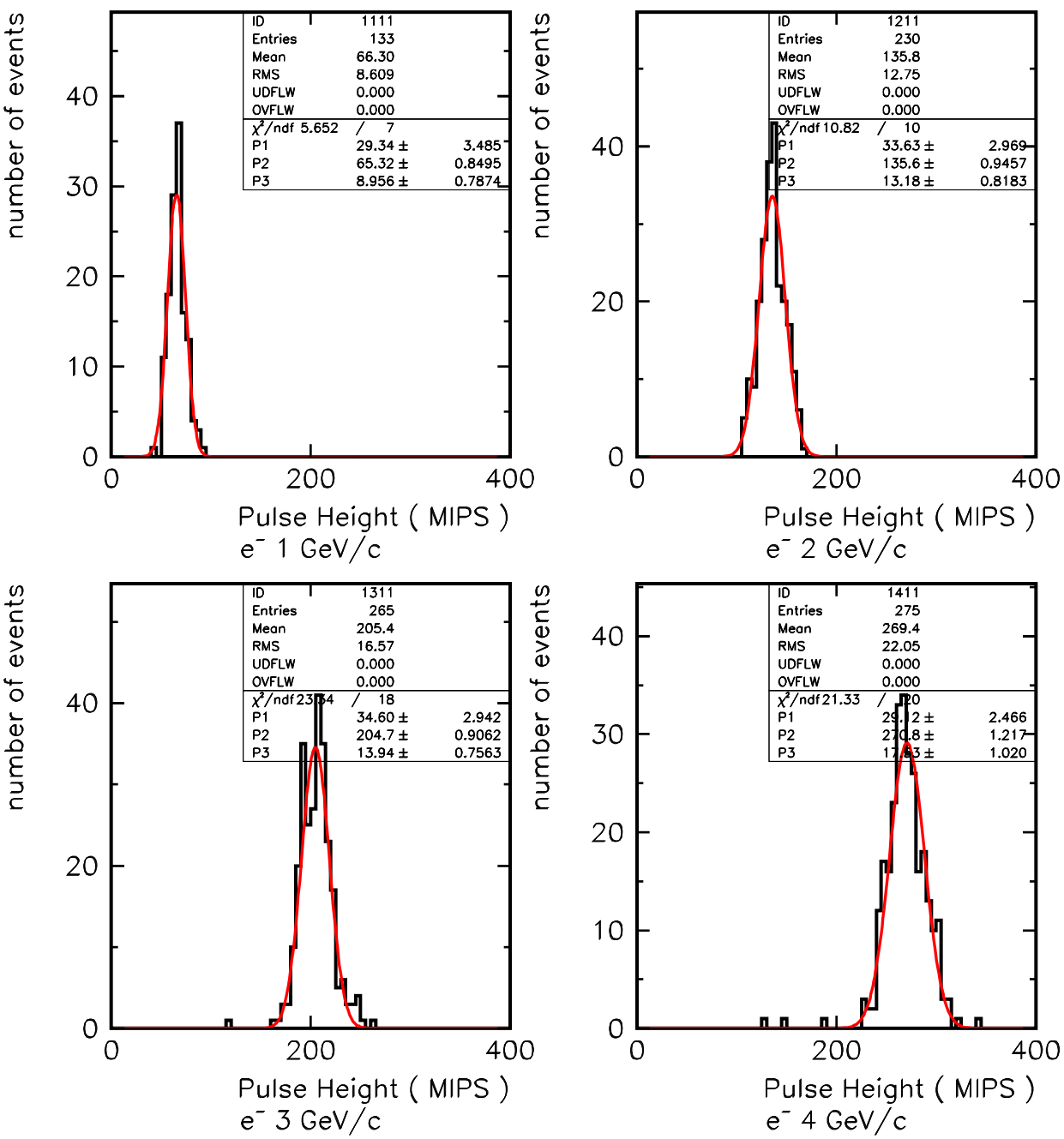

y scan window position−0.7(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 12.64 / 3
P1 67.43 ± 0.2045
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 1.432 / 2
P1 0.1298 ± 0.3801E−02
P2 0.3744E−05 ± 0.2019E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

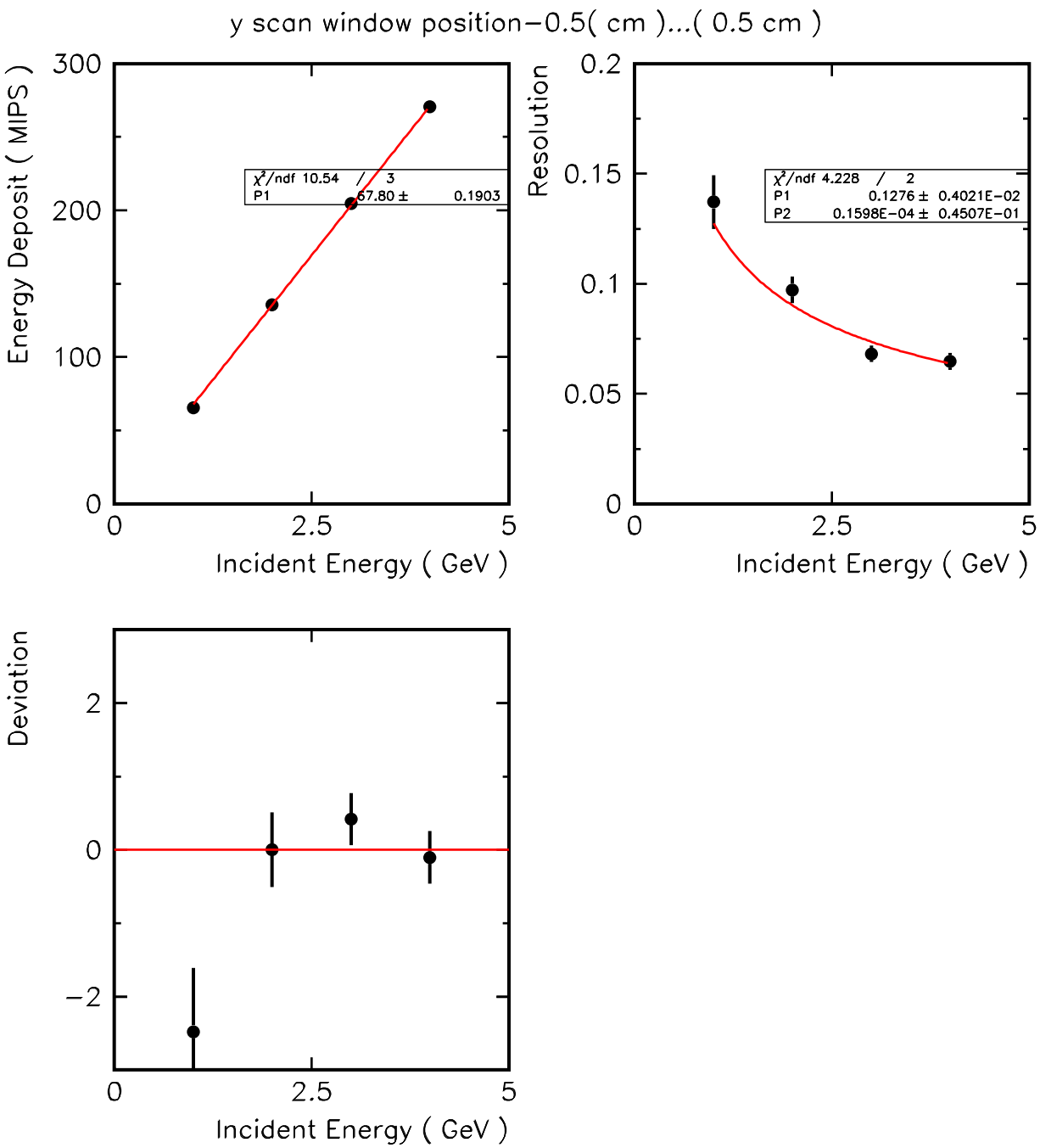
y scan window position−0.6(cm)...(0.5 cm)



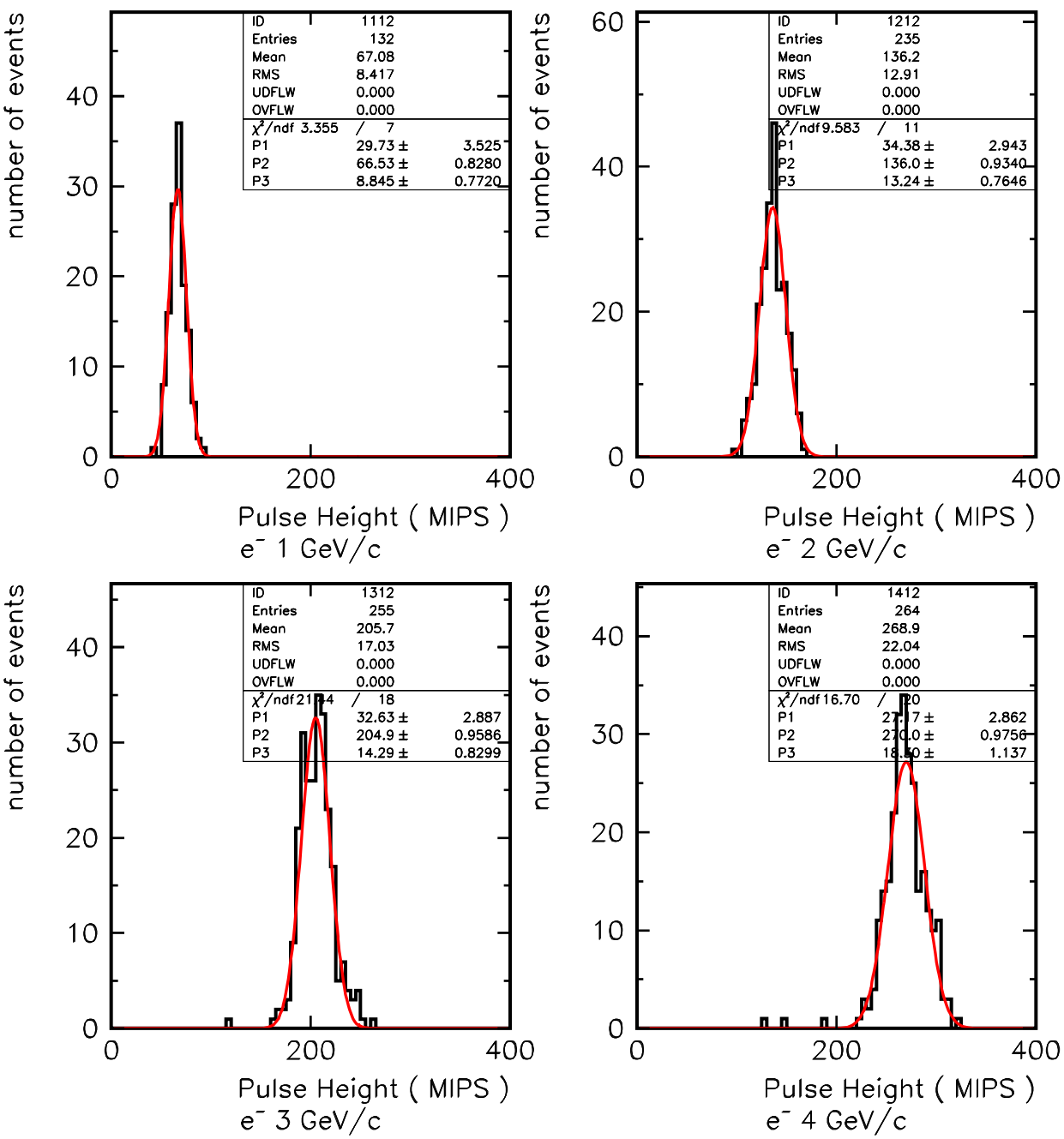

y scan window position−0.6(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 13.75 / 3
P1 67.60 ± 0.1855
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 3.178 / 2
P1 0.1280 ± 0.3955E−02
P2 0.1737E−05 ± 0.1746E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

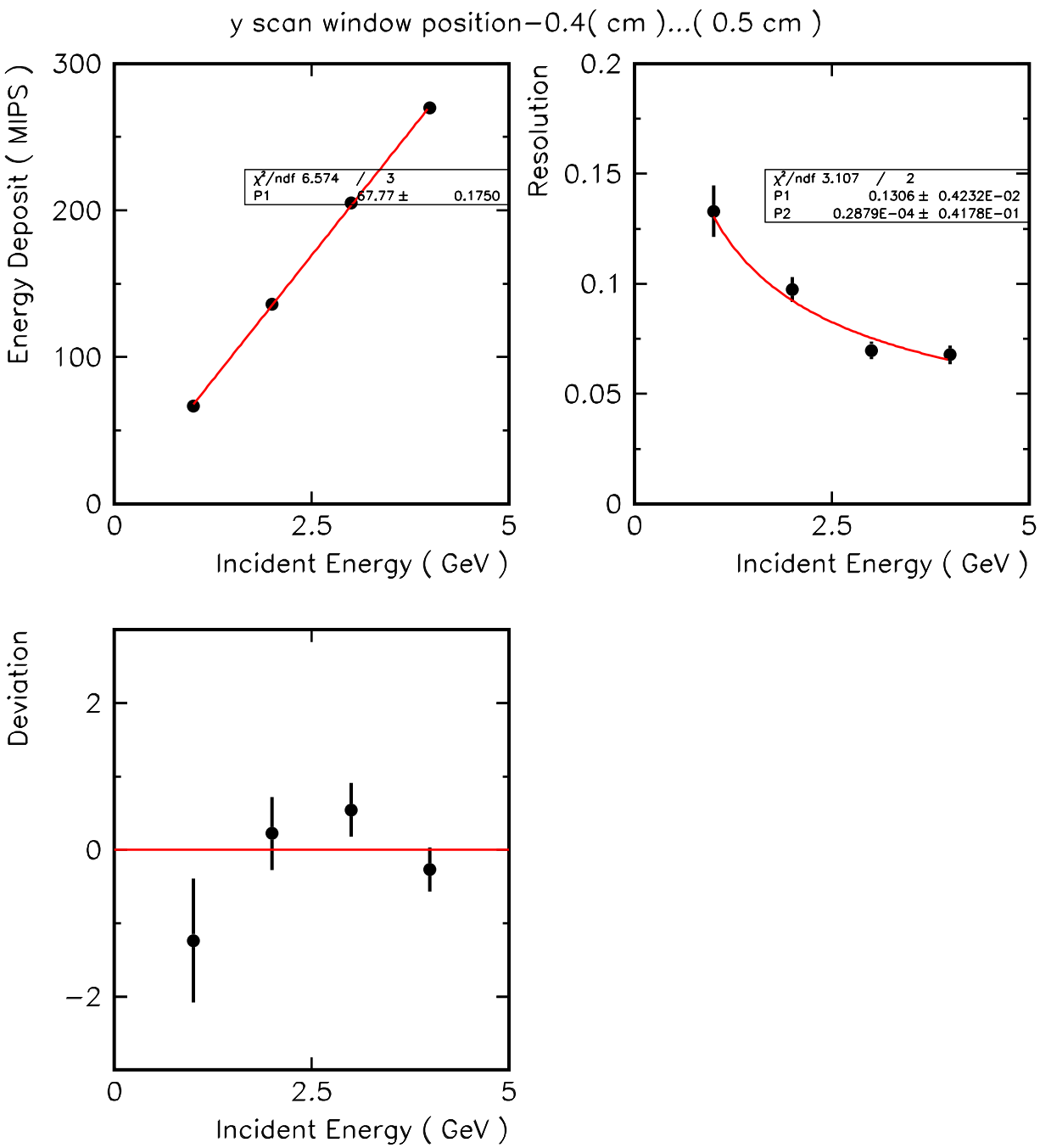
y scan window position−0.5(cm)...(0.5 cm)



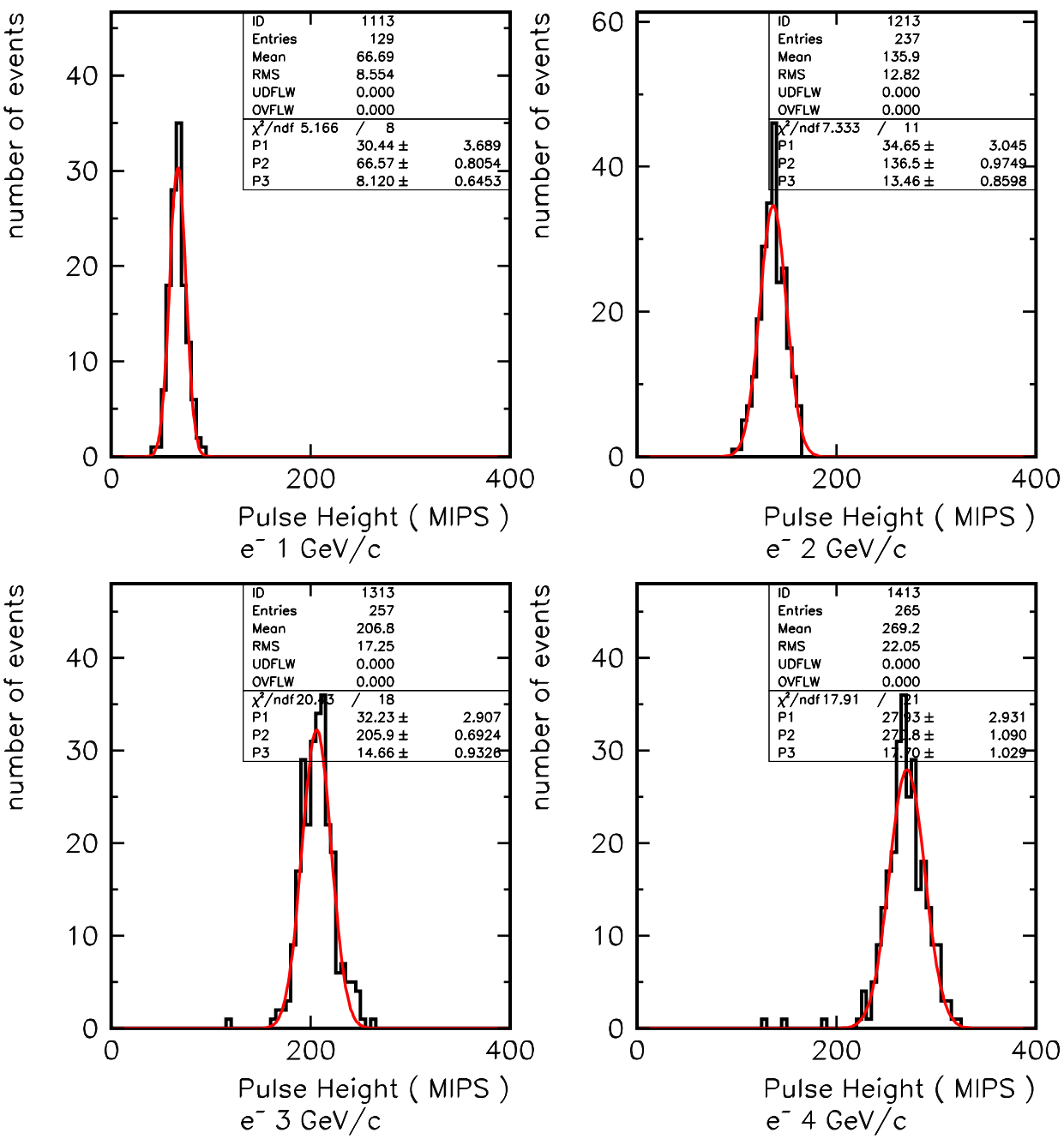

y scan window position−0.5(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 10.54 / 3
P1 67.80 ± 0.1903
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.228 / 2
P1 0.1276 ± 0.4021E−02
P2 0.1598E−04 ± 0.4507E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

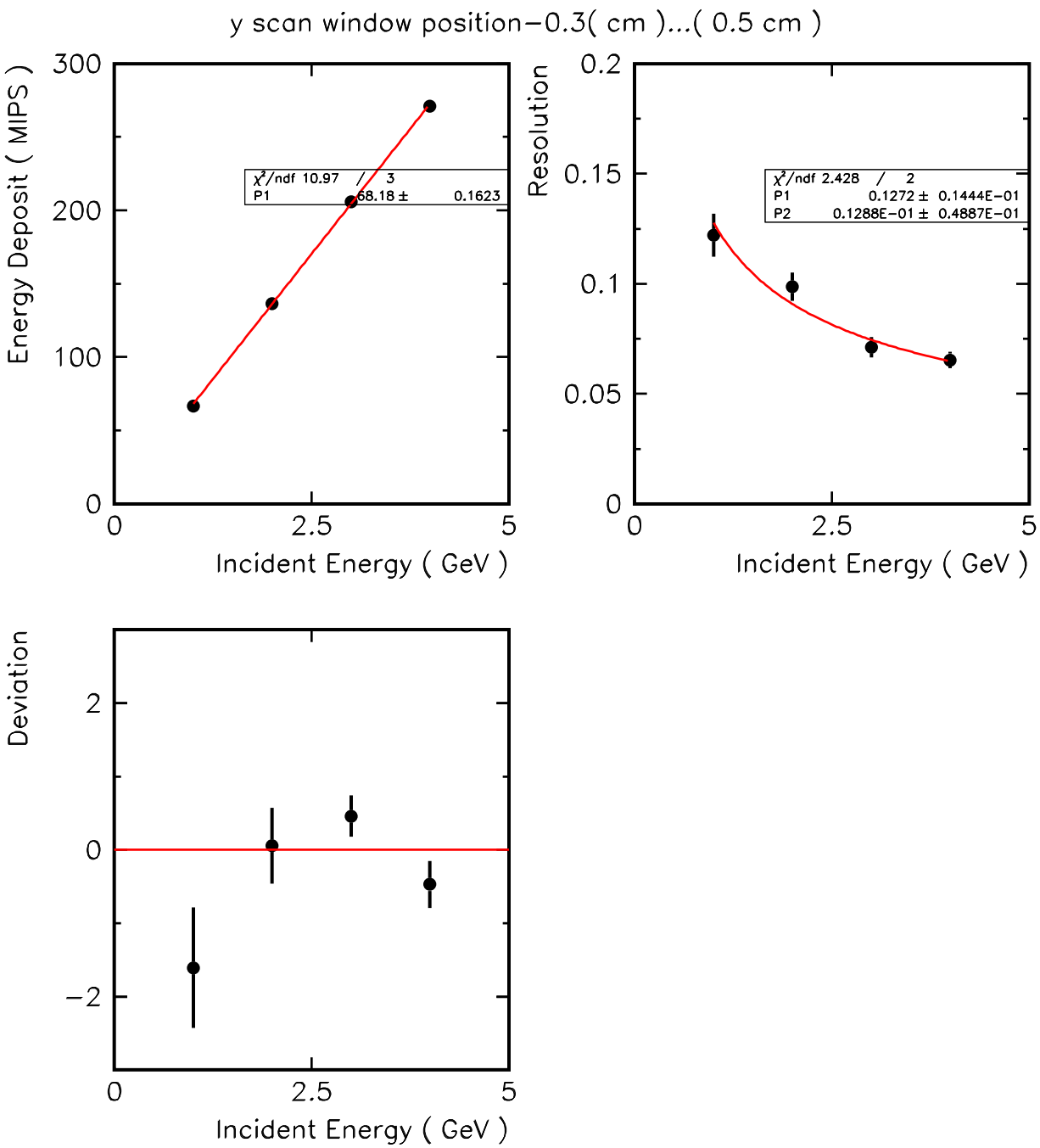
y scan window position−0.4(cm)...(0.5 cm)



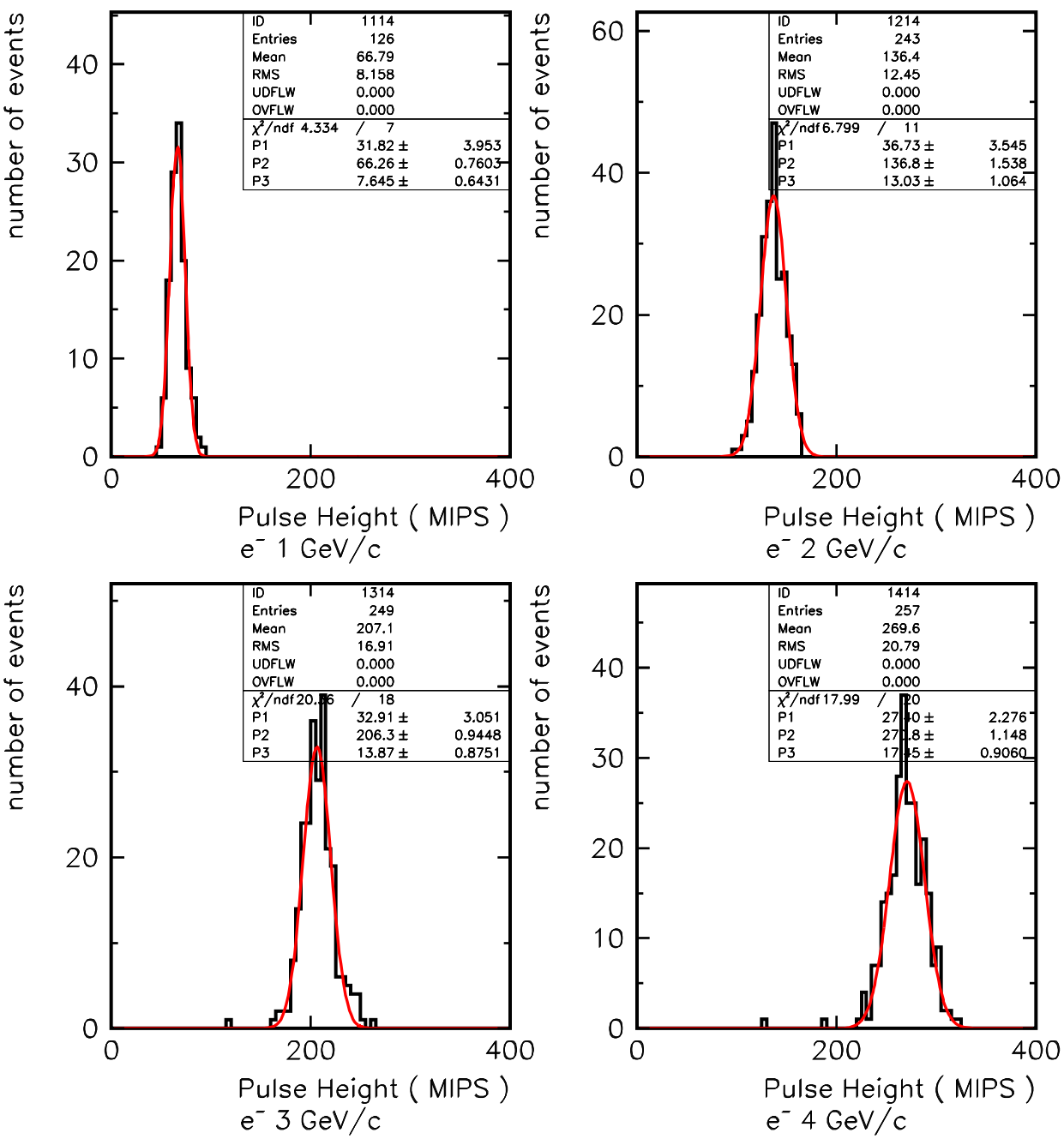

y scan window position−0.4(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.574 / 3
P1 67.77 ± 0.1750
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 3.107 / 2
P1 0.1306 ± 0.4232E−02
P2 0.2879E−04 ± 0.4178E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

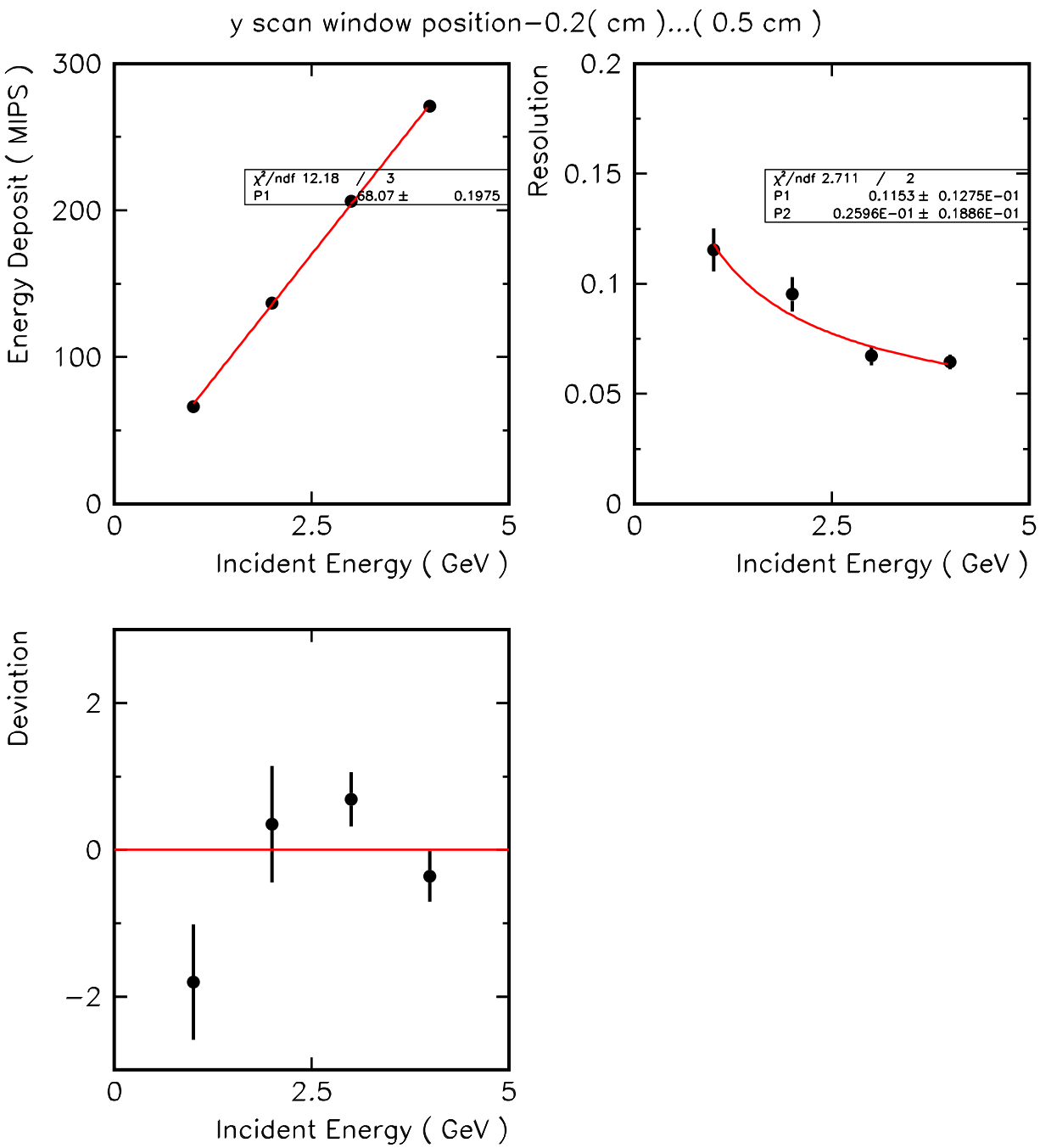
y scan window position−0.3(cm)...(0.5 cm)



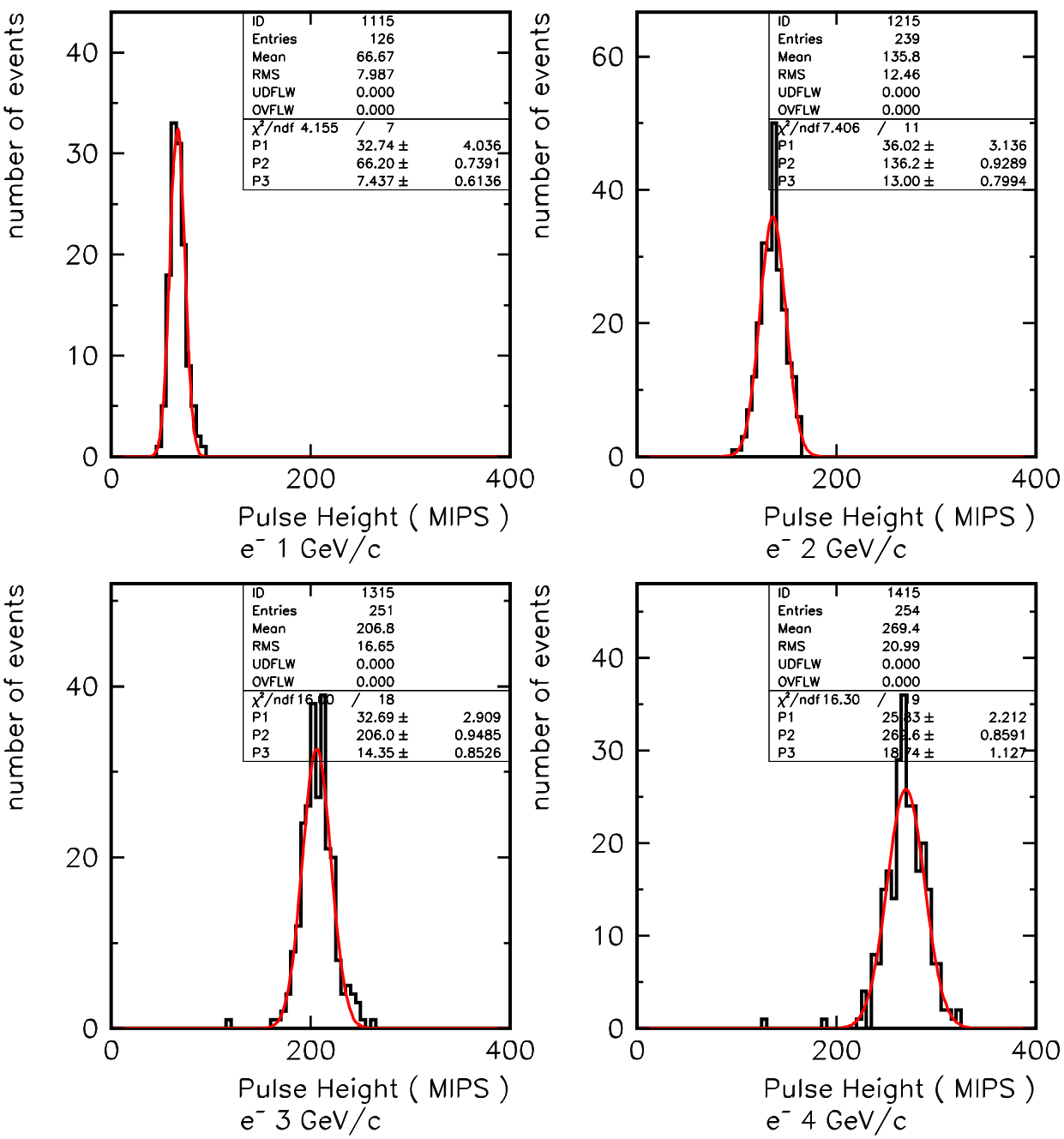

y scan window position−0.3(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 10.97 / 3
P1 68.18 ± 0.1623
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.428 / 2
P1 0.1272 ± 0.1444E−01
P2 0.1288E−01 ± 0.4887E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

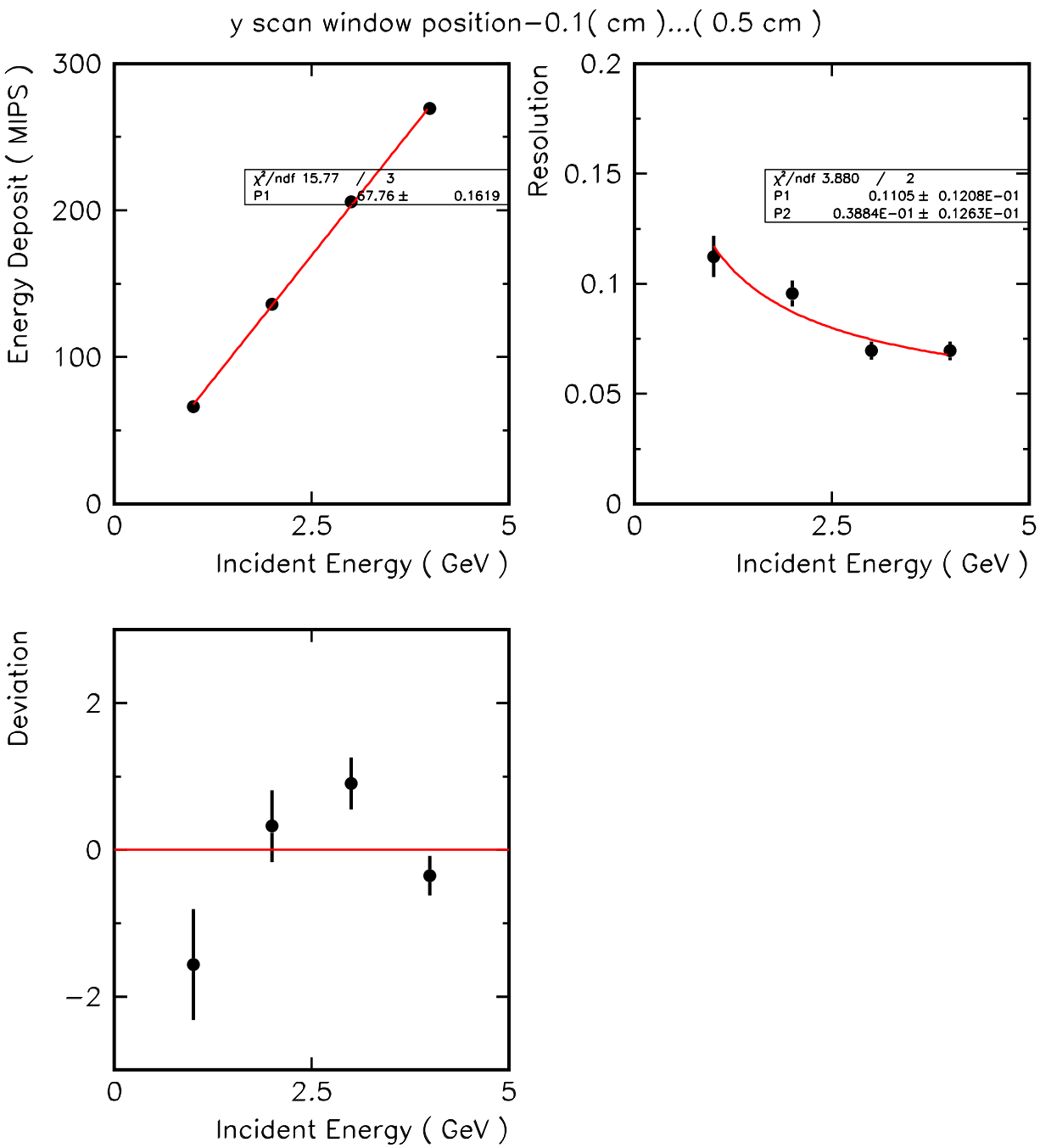
y scan window position−0.2(cm)...(0.5 cm)



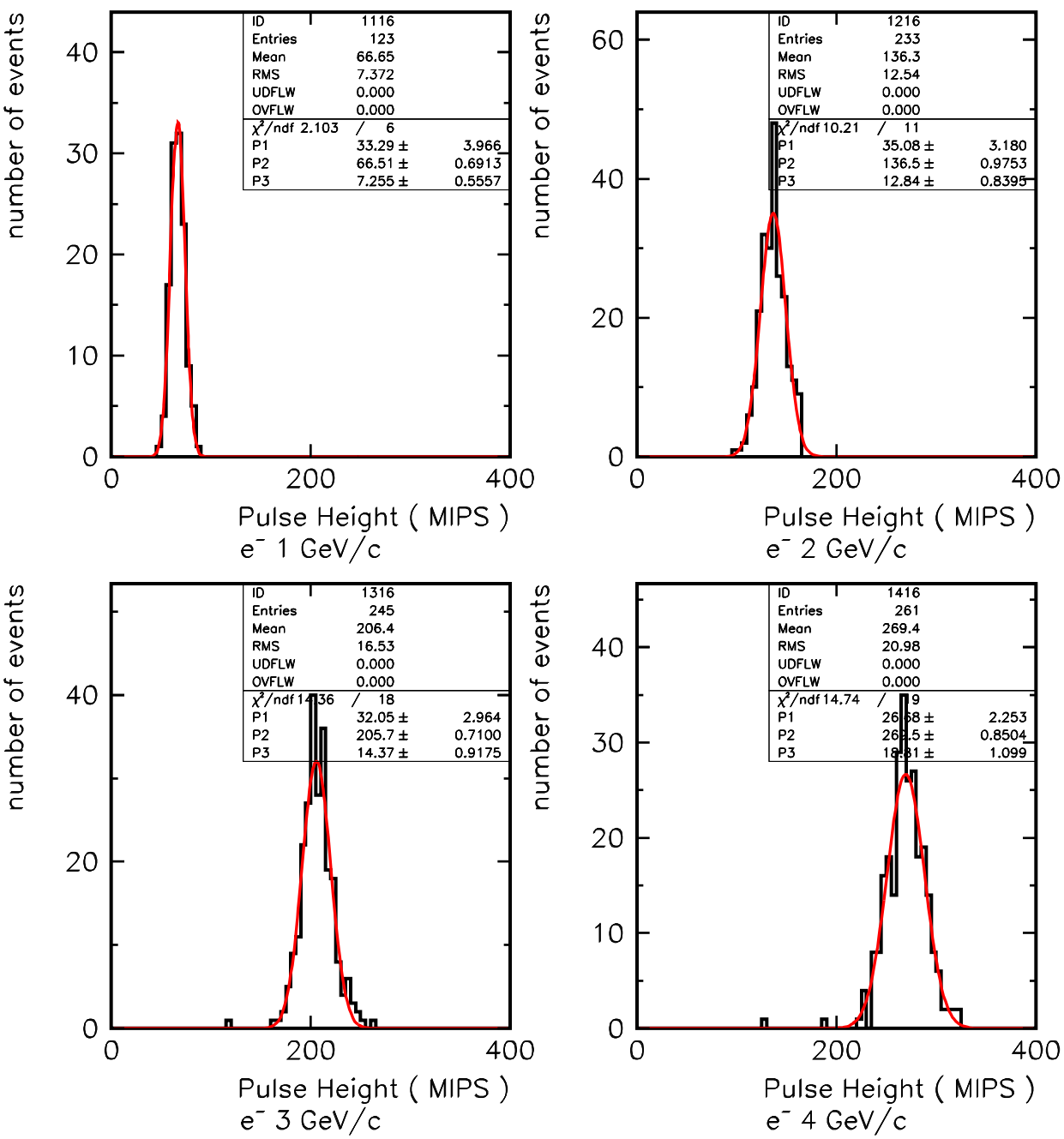

y scan window position−0.2(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 12.18 / 3
P1 68.07 ± 0.1975
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.711 / 2
P1 0.1153 ± 0.1275E−01
P2 0.2596E−01 ± 0.1886E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

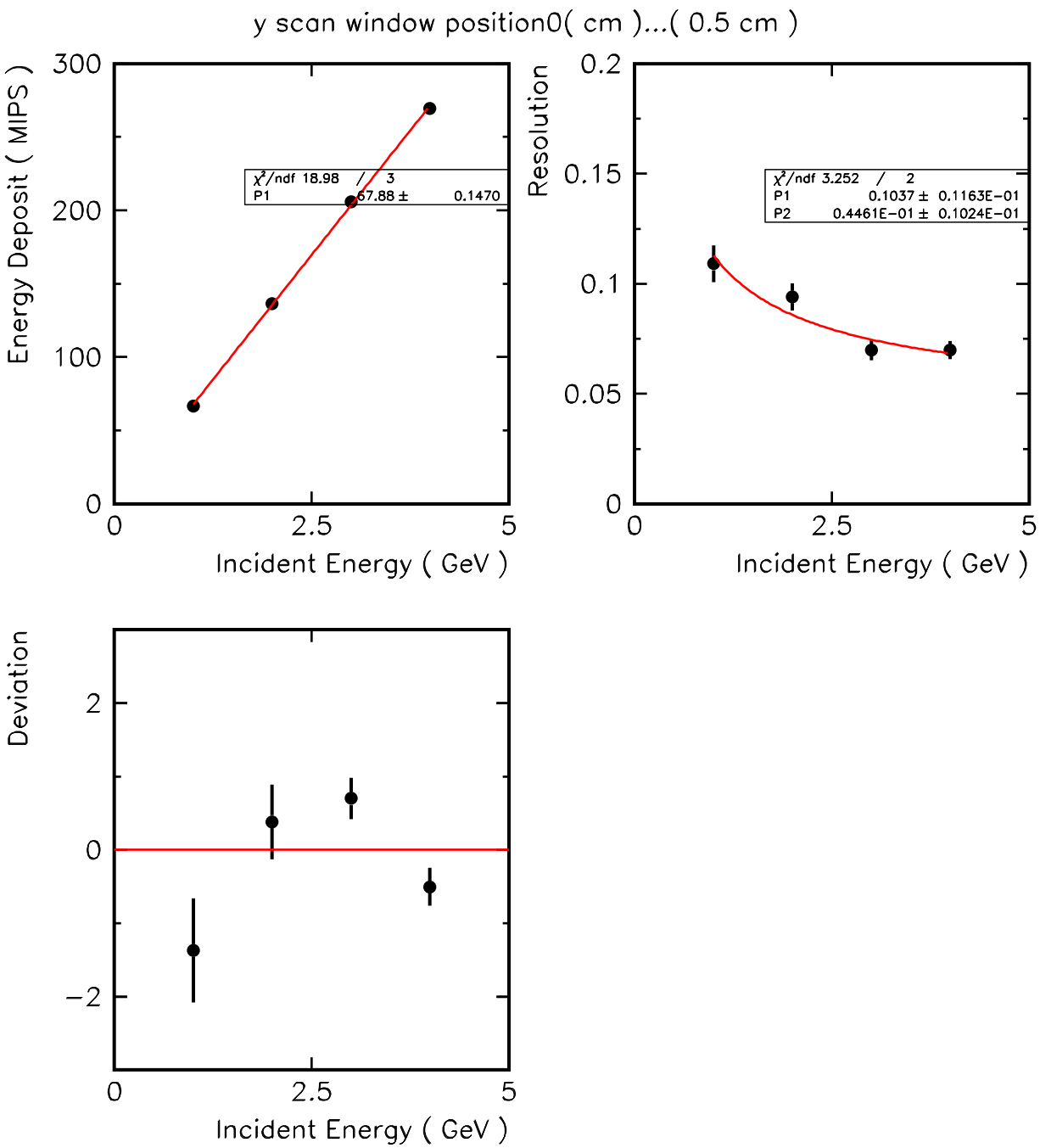
y scan window position−0.1(cm)...(0.5 cm)



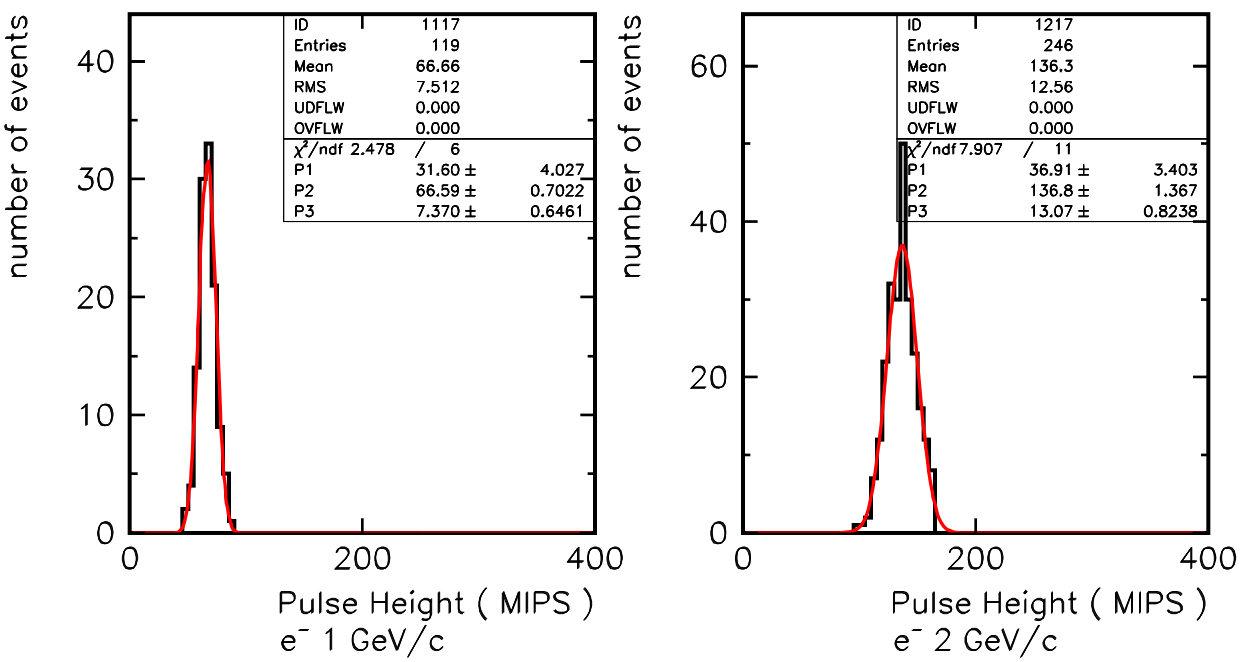

y scan window position−0.1(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 15.77 / 3
P1 67.76 ± 0.1619
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 3.880 / 2
P1 0.1105 ± 0.1208E−01
P2 0.3884E−01 ± 0.1263E−01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

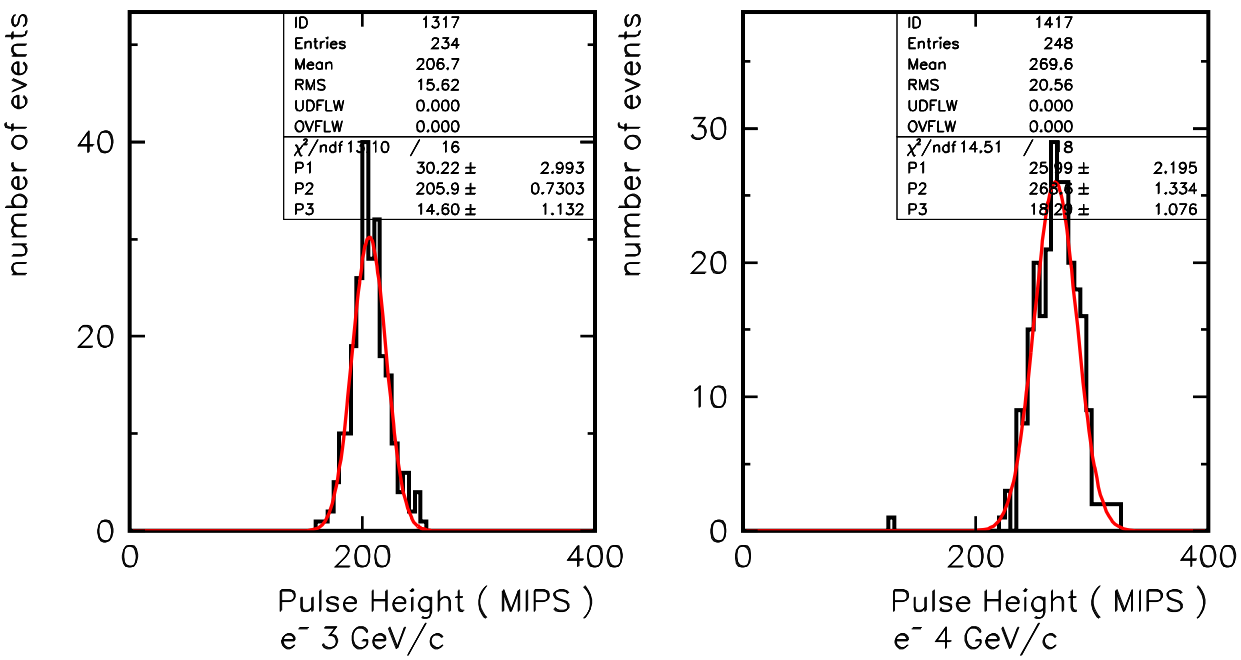
y scan window position0(cm)...(0.5 cm)

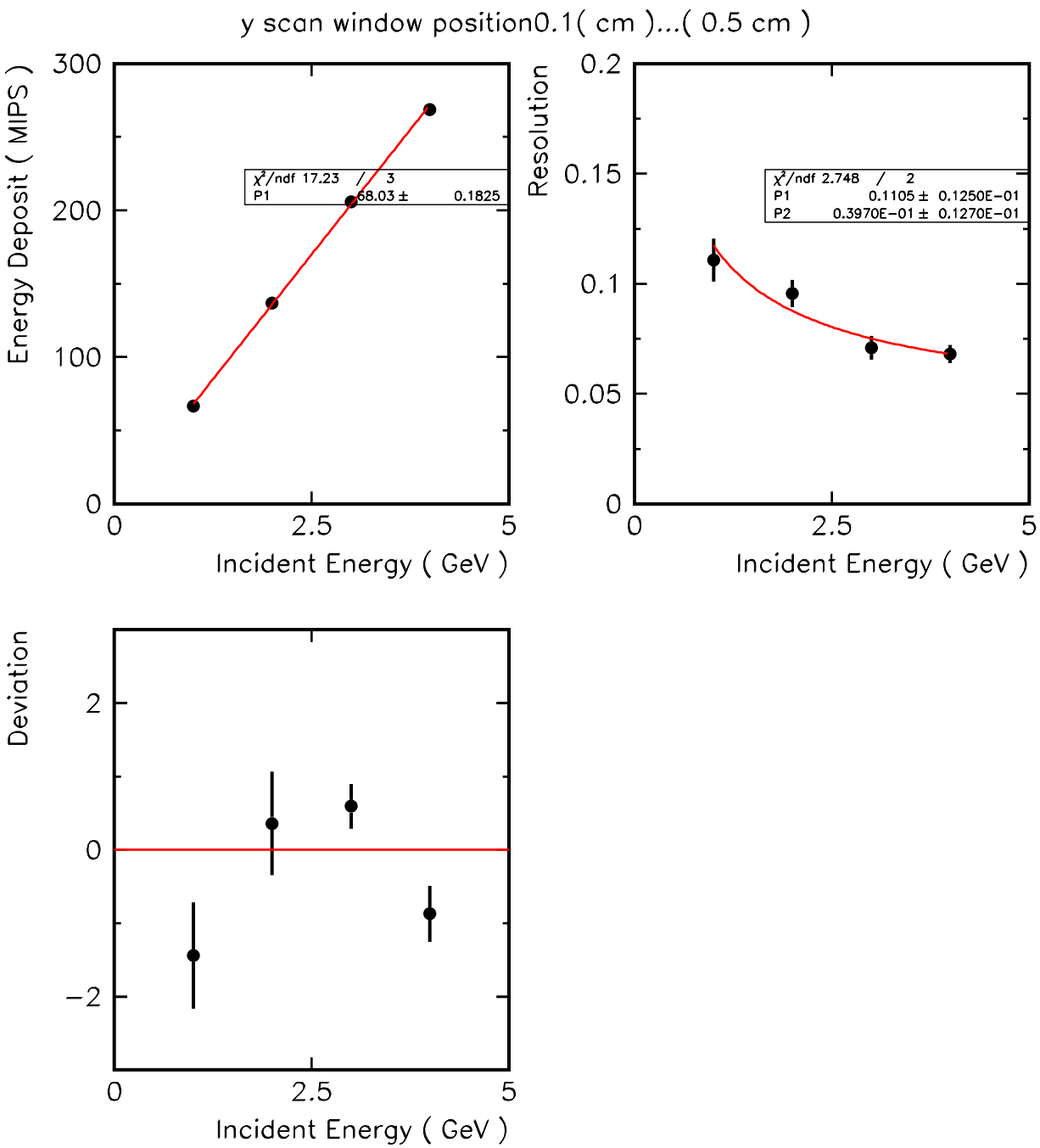



y scan window position0(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 18.98 / 3
P1 67.88 ± 0.1470
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 3.252 / 2
P1 0.1037 ± 0.1163E-01
P2 0.4461E-01 ± 0.1024E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

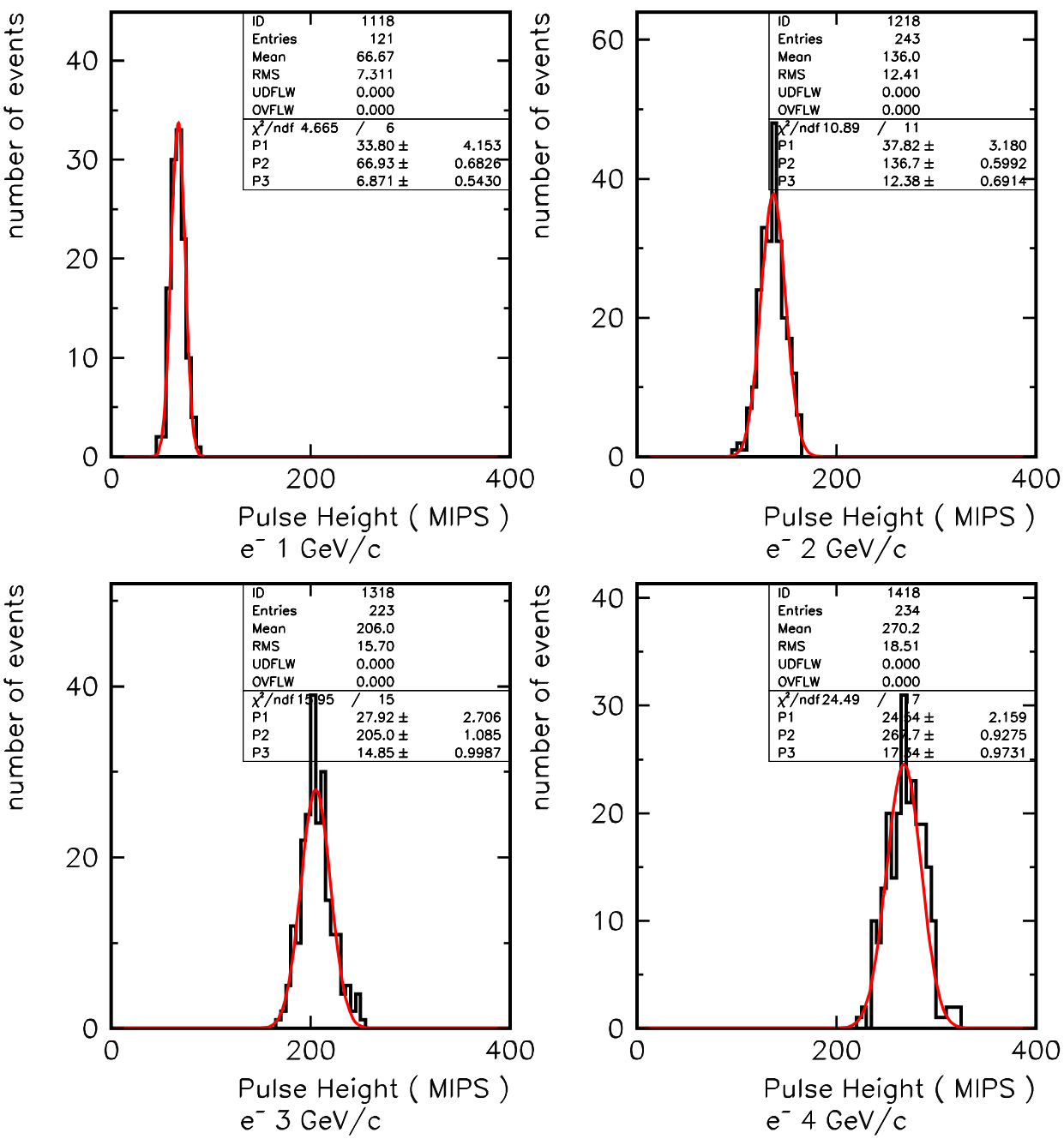
y scan window position0.1(cm)...(0.5 cm)

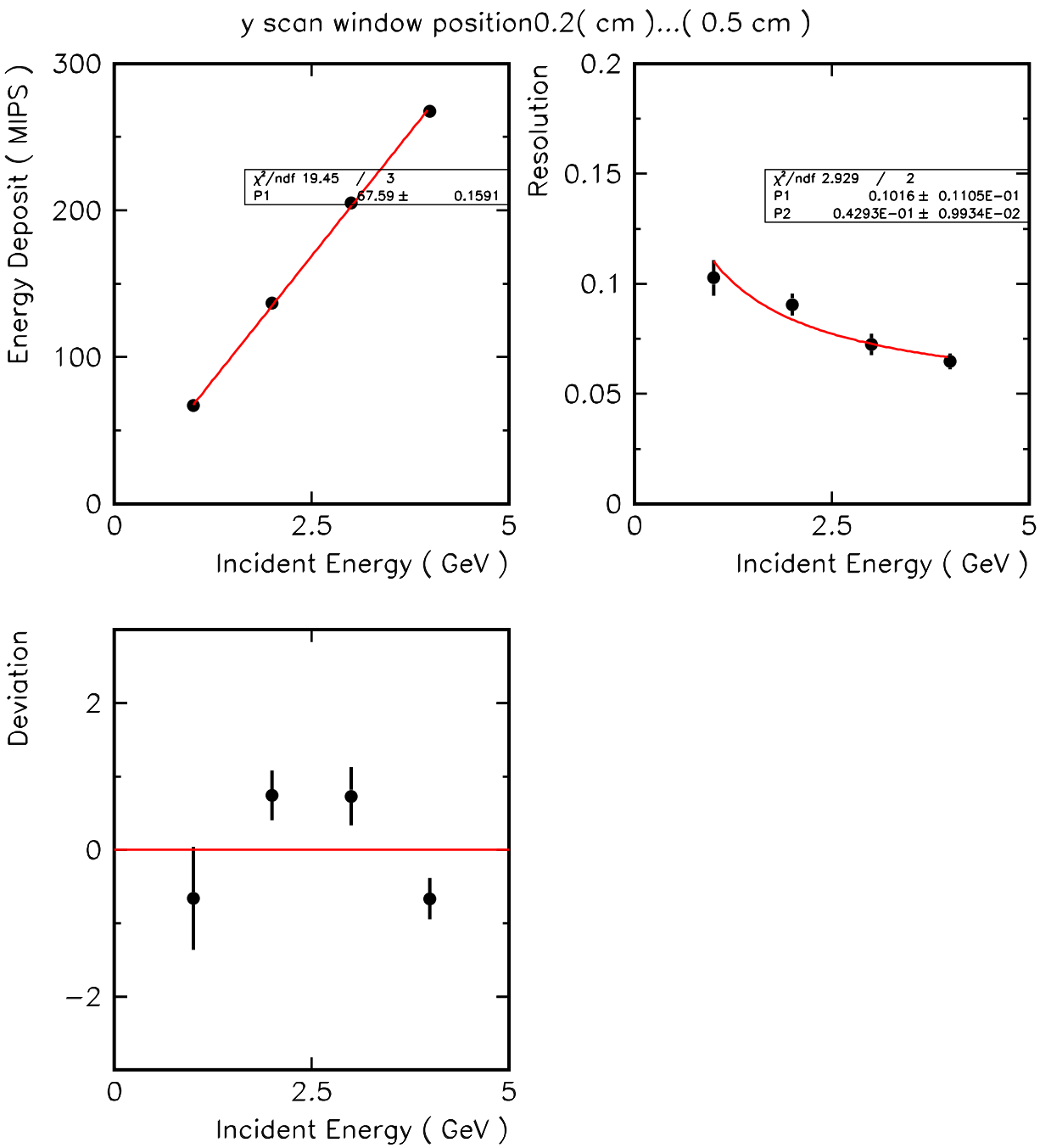


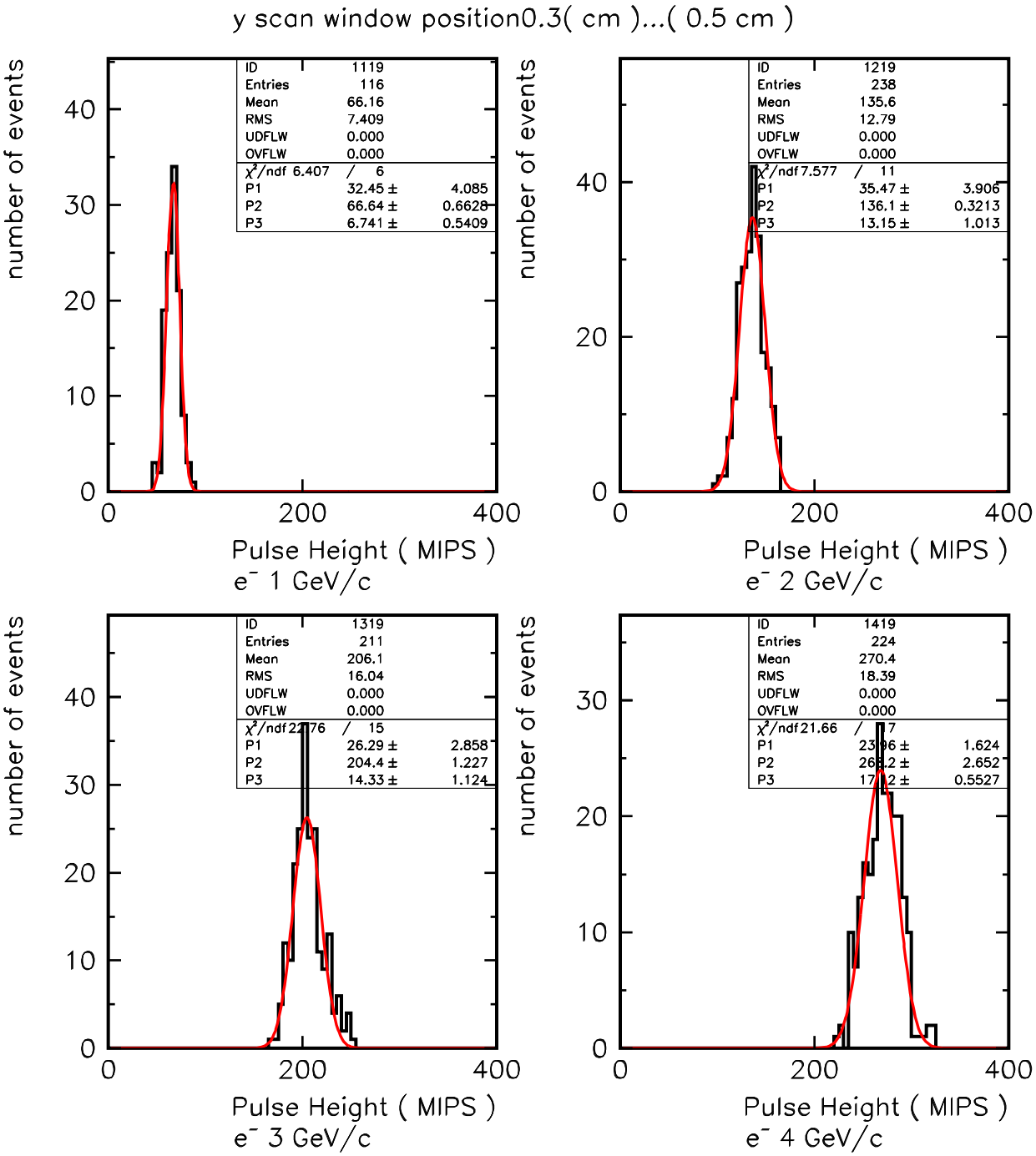


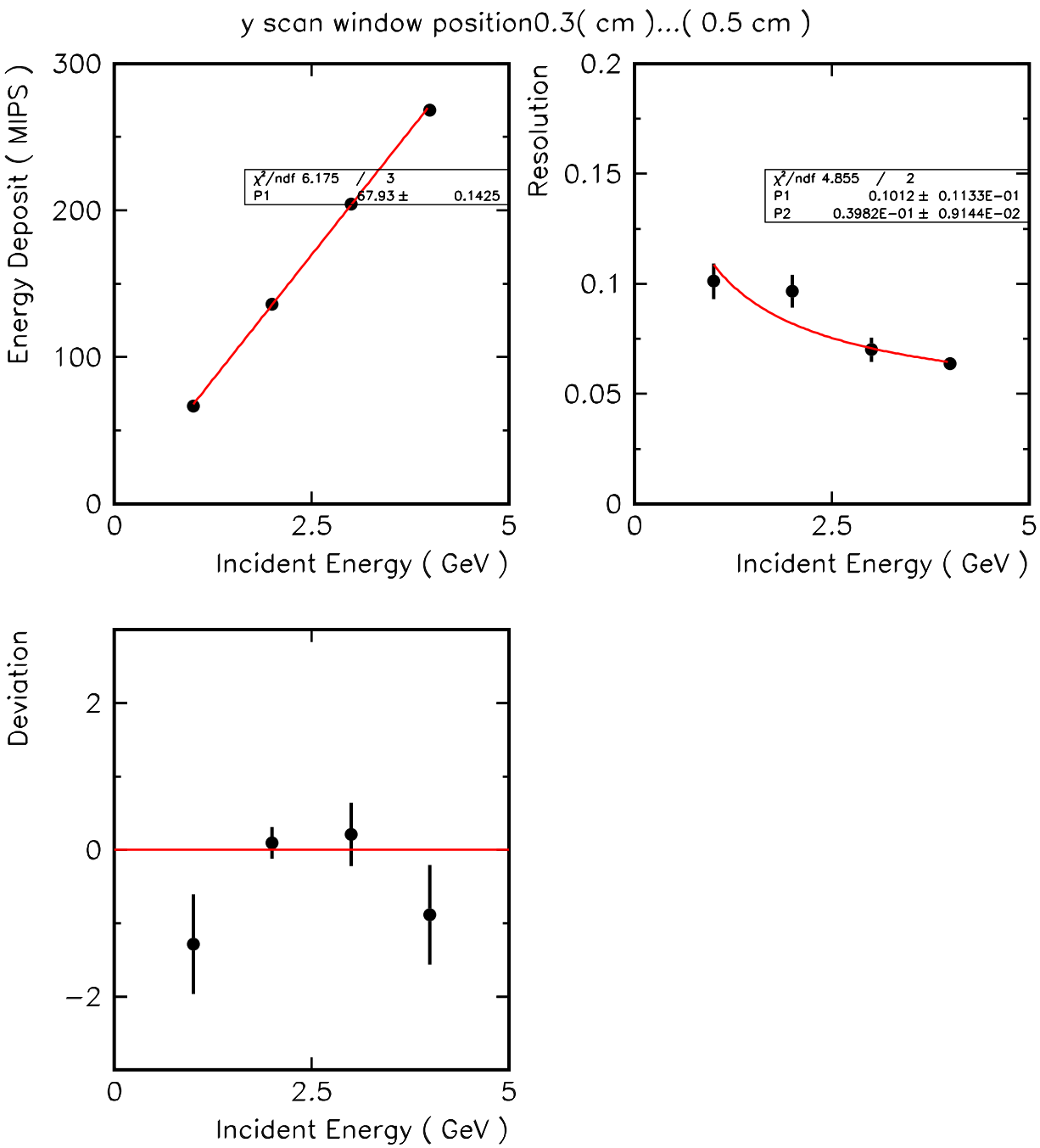

y scan window position0.1(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 17.23 / 3
P1 68.03 ± 0.1825
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.748 / 2
P1 0.1105 ± 0.1250E-01
P2 0.3970E-01 ± 0.1270E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

y scan window position0.2(cm)...(0.5 cm)

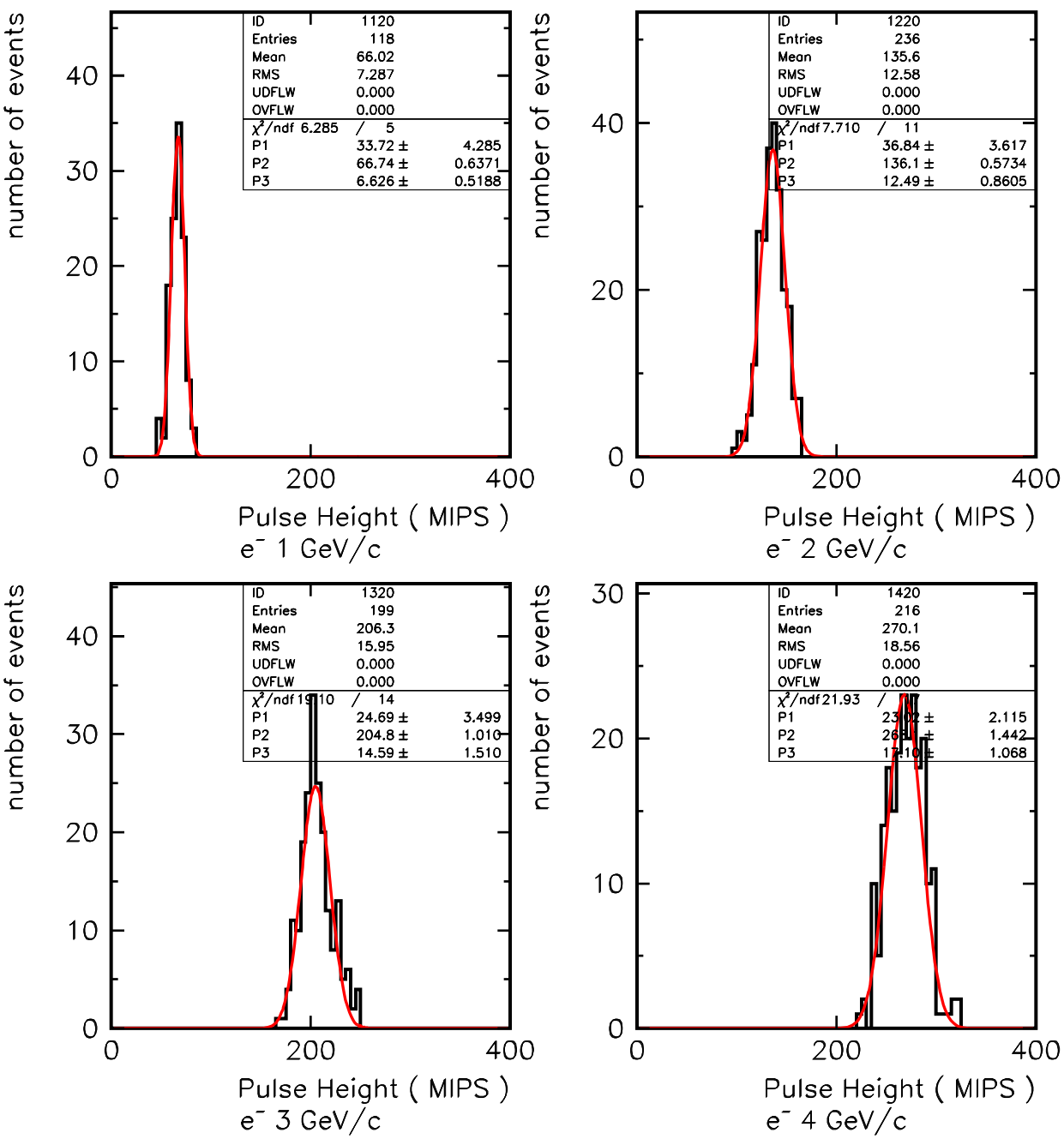


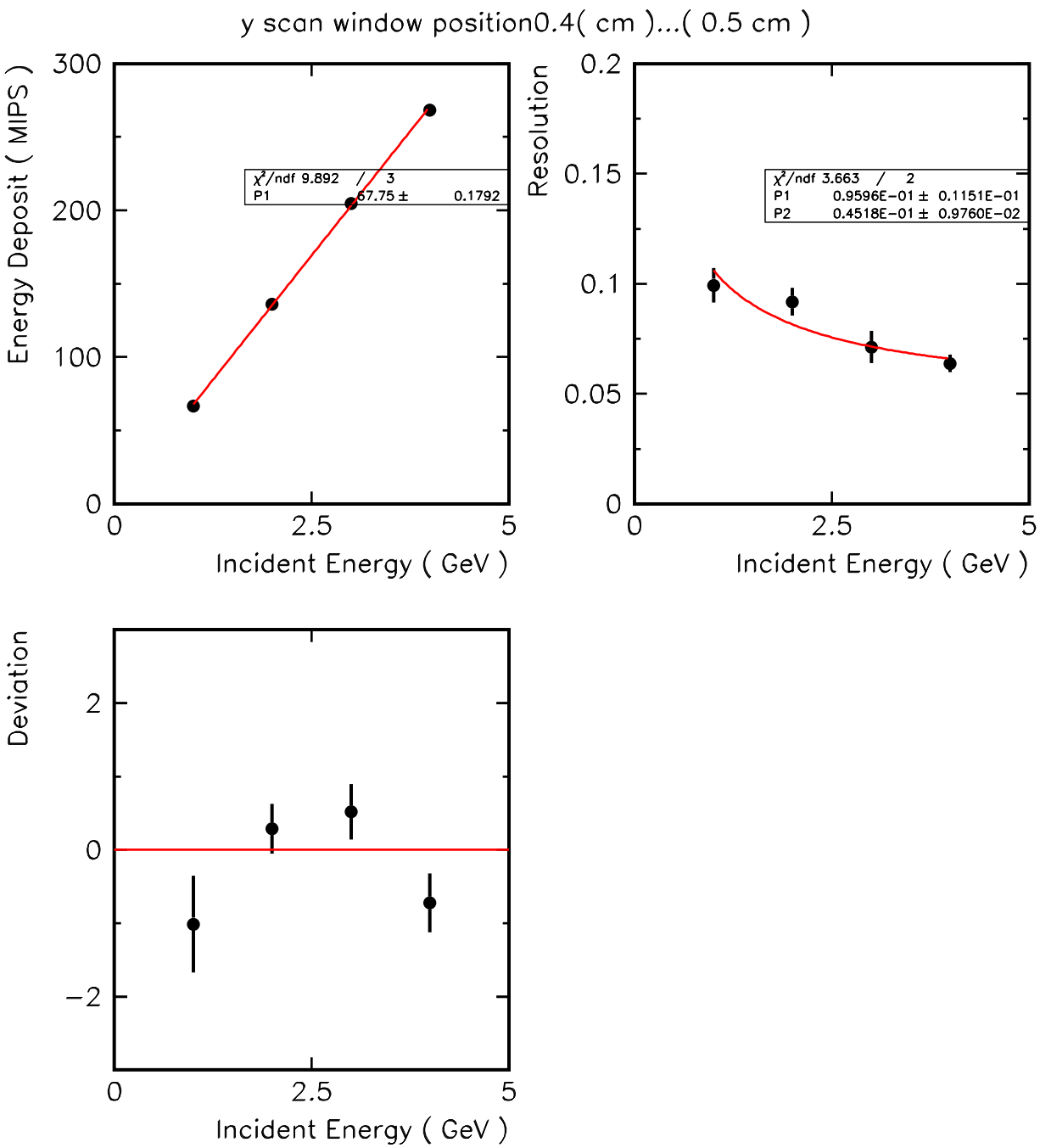

y scan window position0.2(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 19.45 / 3
P1 67.59 ± 0.1591
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.929 / 2
P1 0.1016 ± 0.1105E-01
P2 0.4293E-01 ± 0.9934E-02
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)


y scan window position0.3(cm)...(0.5 cm)
number of events
ID 1119
Entries 116
Mean 66.16
RMS 7.409
UDFLW 0.000
OVFLW 0.000
χ²/ndf 6.407 / 6
P1 32.45 ± 4.085
P2 66.64 ± 0.6628
P3 6.741 ± 0.5409
Pulse Height (MIPS)
e⁻ 1 GeV/c
ID 1219
Entries 238
Mean 135.6
RMS 12.79
UDFLW 0.000
OVFLW 0.000
χ²/ndf 7.577 / 11
P1 35.47 ± 3.906
P2 136.1 ± 0.3213
P3 13.15 ± 1.013
Pulse Height (MIPS)
e⁻ 2 GeV/c
ID 1319
Entries 211
Mean 206.1
RMS 16.04
UDFLW 0.000
OVFLW 0.000
χ²/ndf 22.76 / 15
P1 26.29 ± 2.858
P2 204.4 ± 1.227
P3 14.33 ± 1.124
Pulse Height (MIPS)
e⁻ 3 GeV/c
ID 1419
Entries 224
Mean 270.4
RMS 18.39
UDFLW 0.000
OVFLW 0.000
χ²/ndf 21.66 / 7
P1 23.96 ± 1.624
P2 268.2 ± 2.652
P3 17.12 ± 0.5527
Pulse Height (MIPS)
e⁻ 4 GeV/c

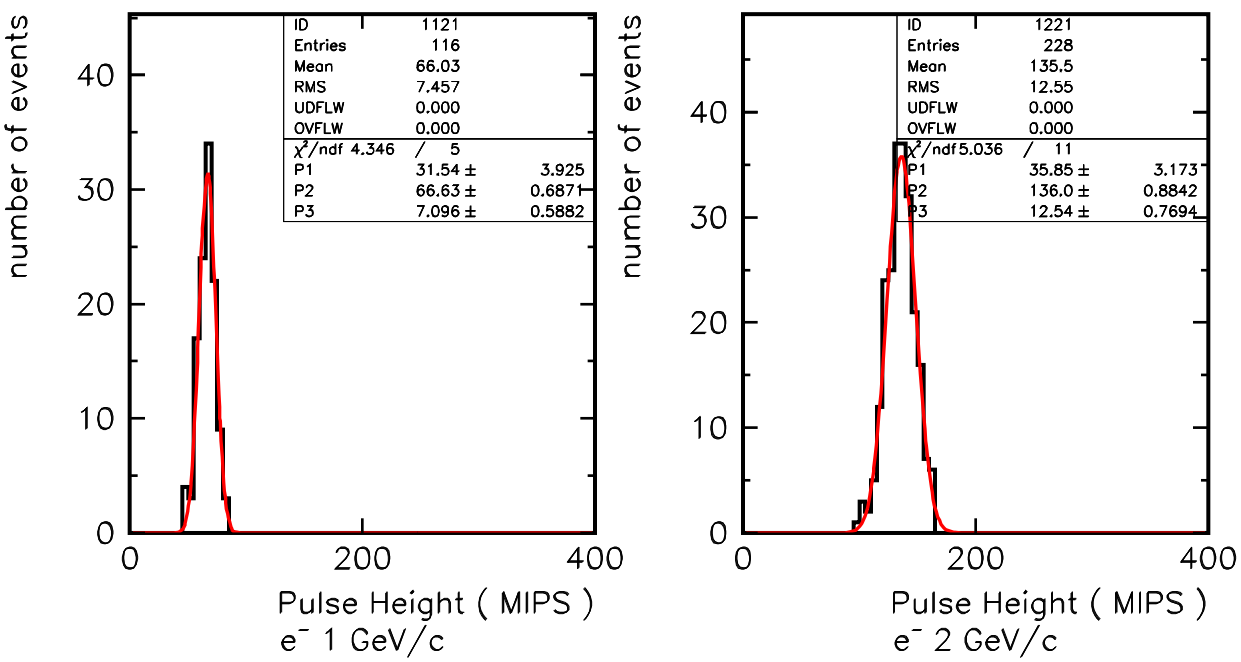

y scan window position0.3(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.175 / 3
P1 67.93 ± 0.1425
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.855 / 2
P1 0.1012 ± 0.1133E-01
P2 0.3982E-01 ± 0.9144E-02
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

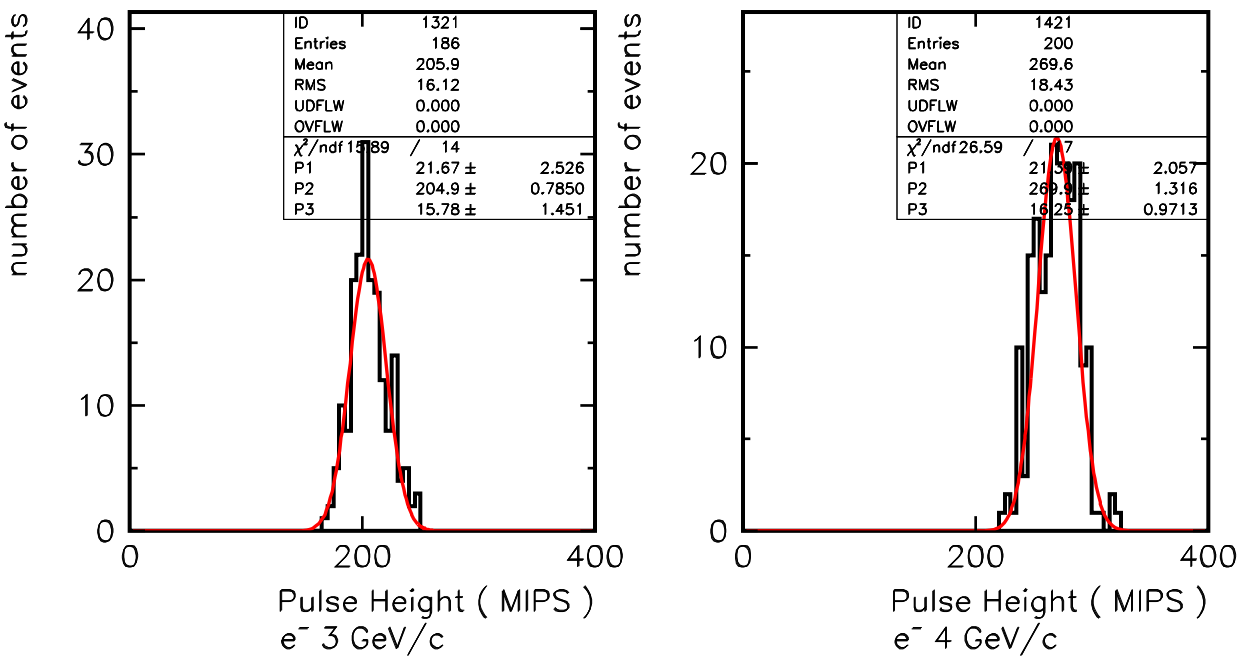
y scan window position0.4(cm)...(0.5 cm)

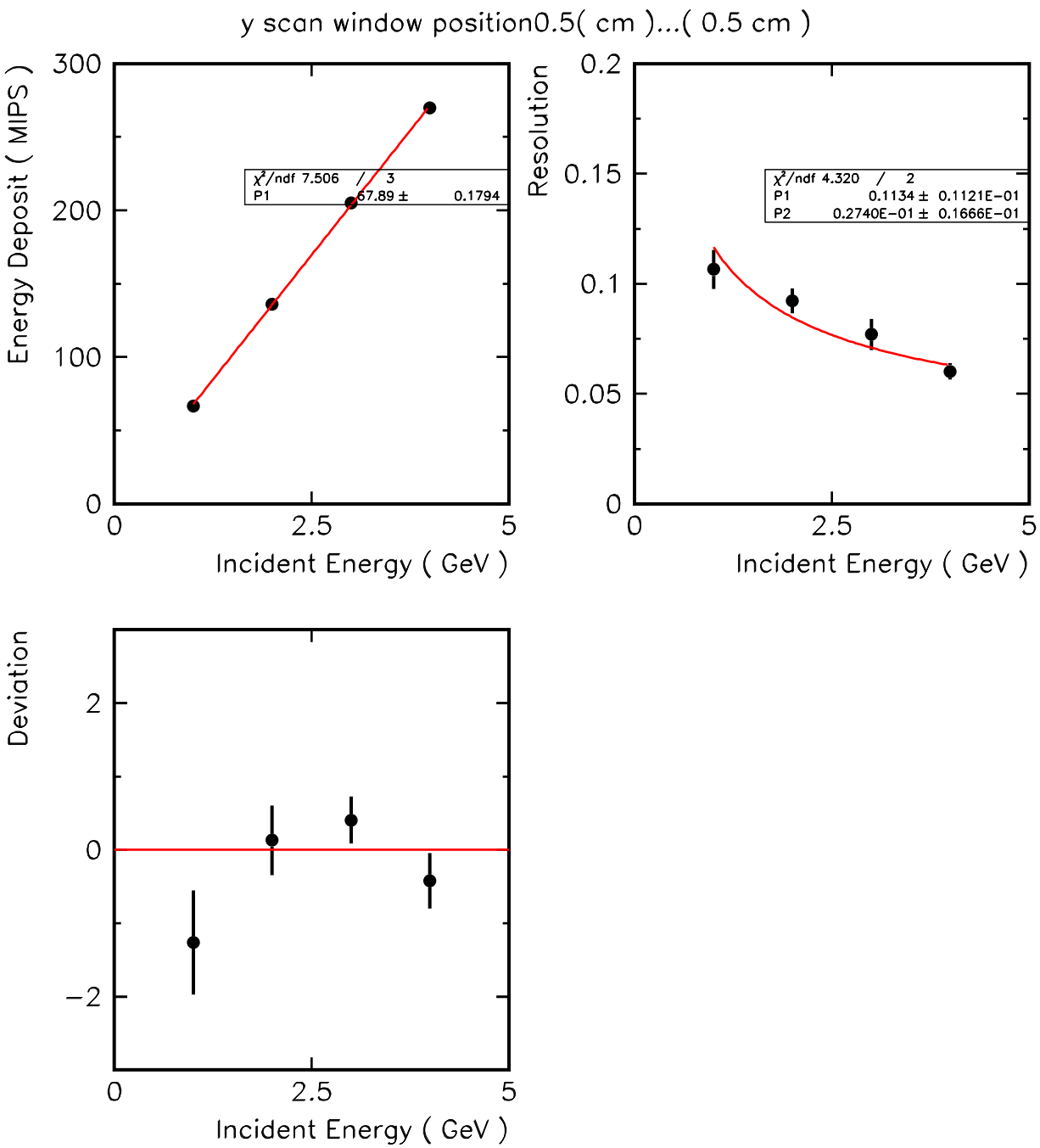



y scan window position0.4(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 9.892 / 3
P1 67.75 ± 0.1792
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 3.663 / 2
P1 0.9596E-01 ± 0.1151E-01
P2 0.4518E-01 ± 0.9760E-02
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

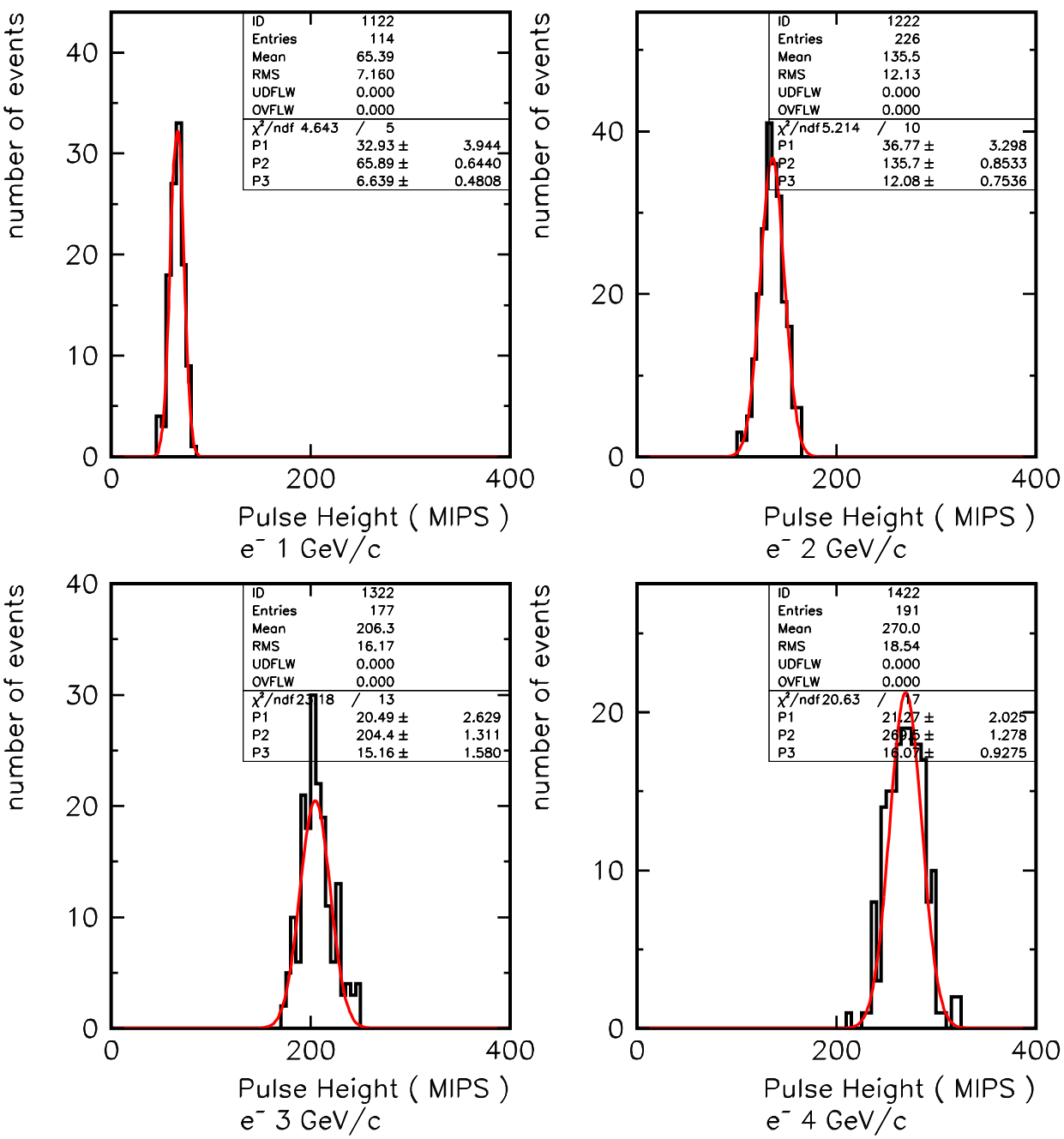
y scan window position0.5(cm)...(0.5 cm)

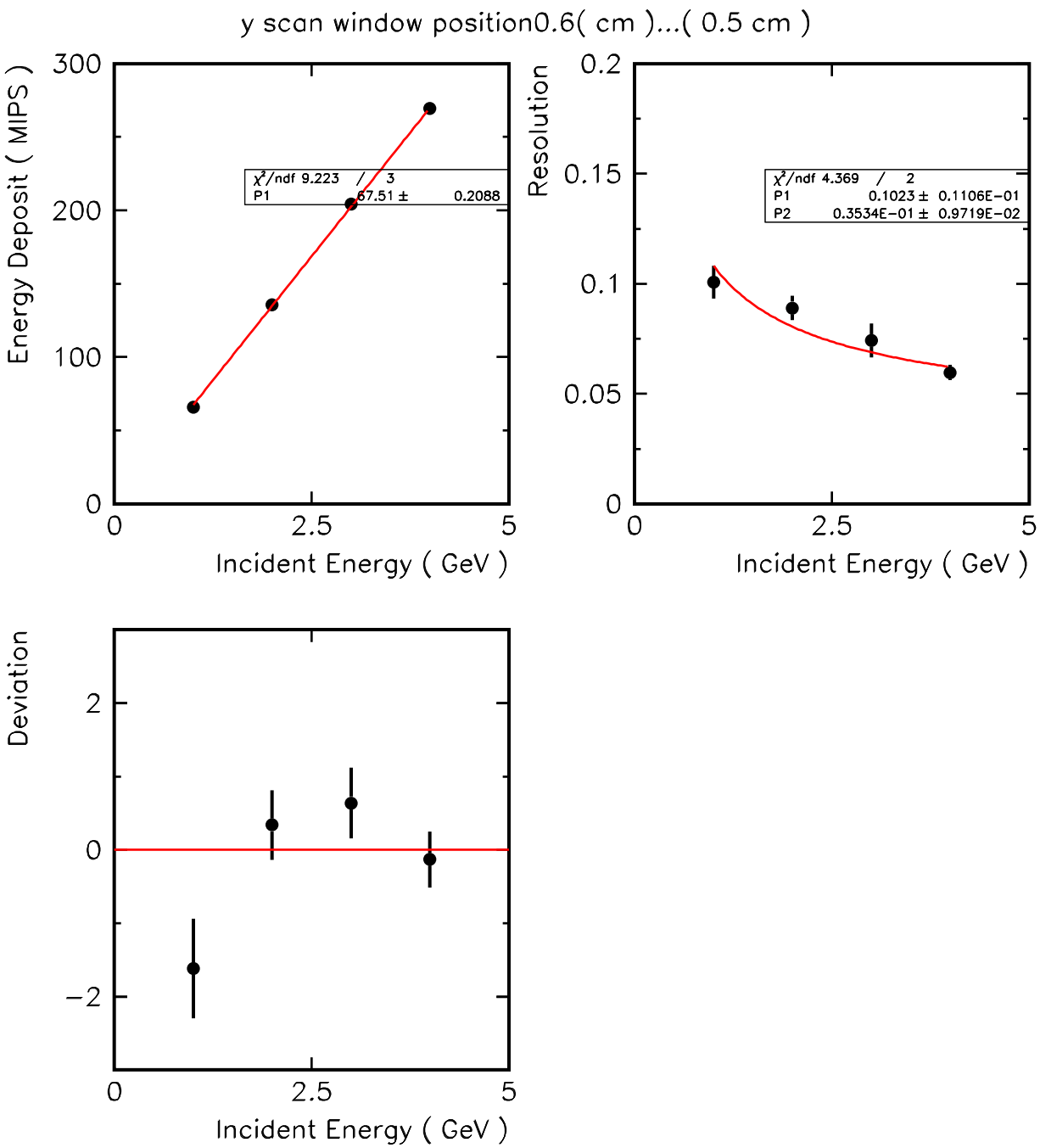




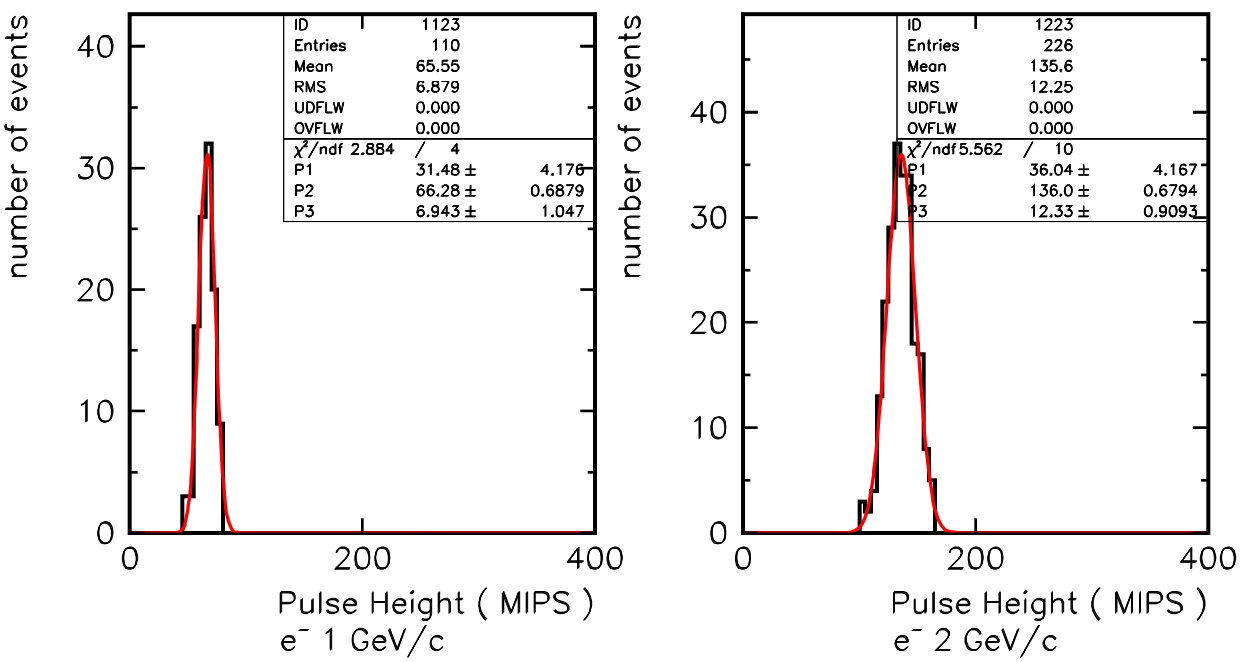

y scan window position0.5(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 7.506 / 3
P1 67.89 ± 0.1794
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.320 / 2
P1 0.1134 ± 0.1121E-01
P2 0.2740E-01 ± 0.1666E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

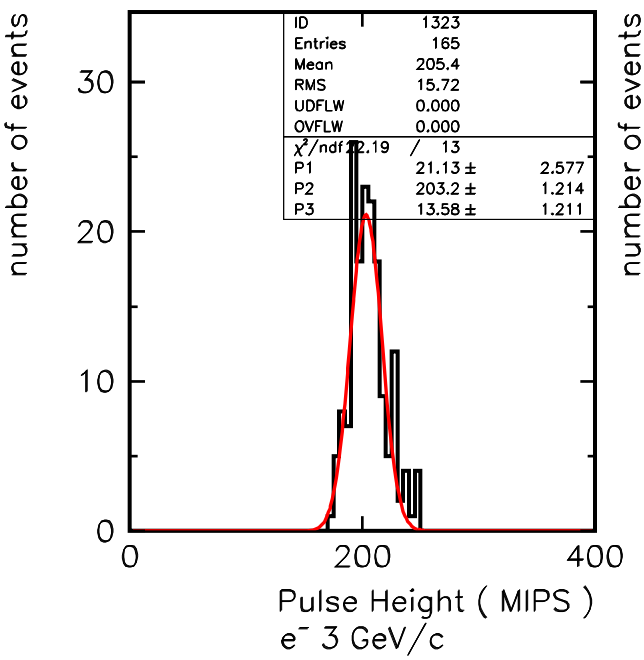
y scan window position0.6(cm)...(0.5 cm)

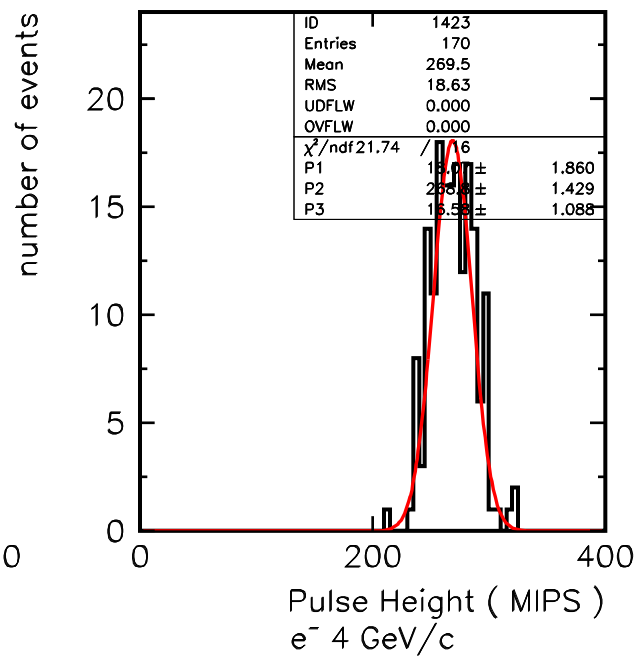


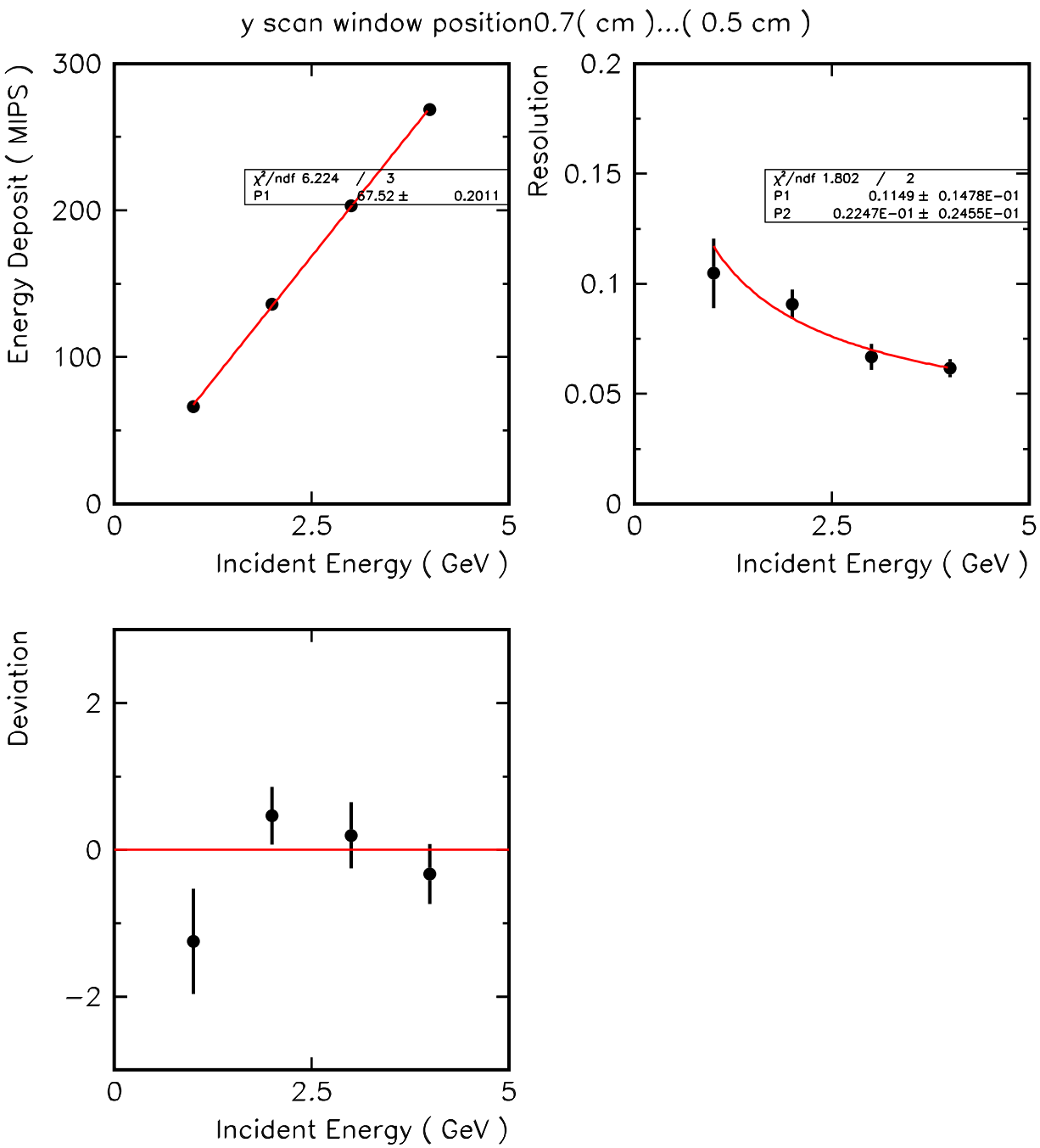

y scan window position0.6(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 9.223 / 3
P1 67.51 ± 0.2088
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.369 / 2
P1 0.1023 ± 0.1106E-01
P2 0.3534E-01 ± 0.9719E-02
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

y scan window position0.7(cm)...(0.5 cm)

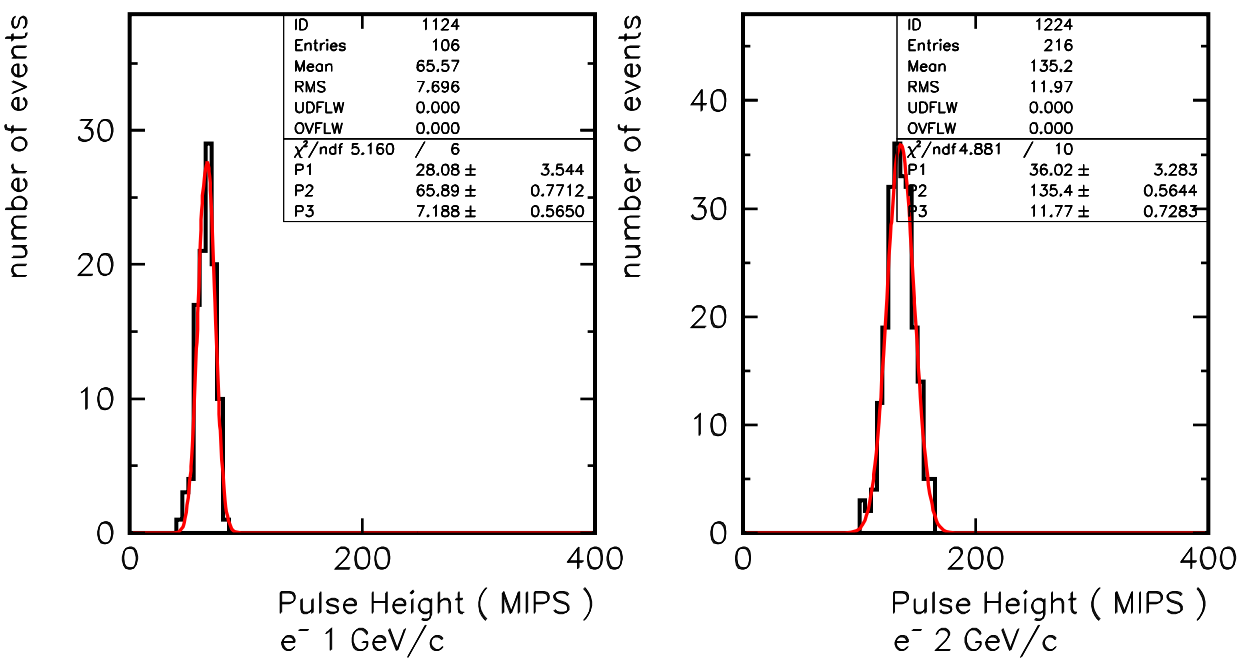


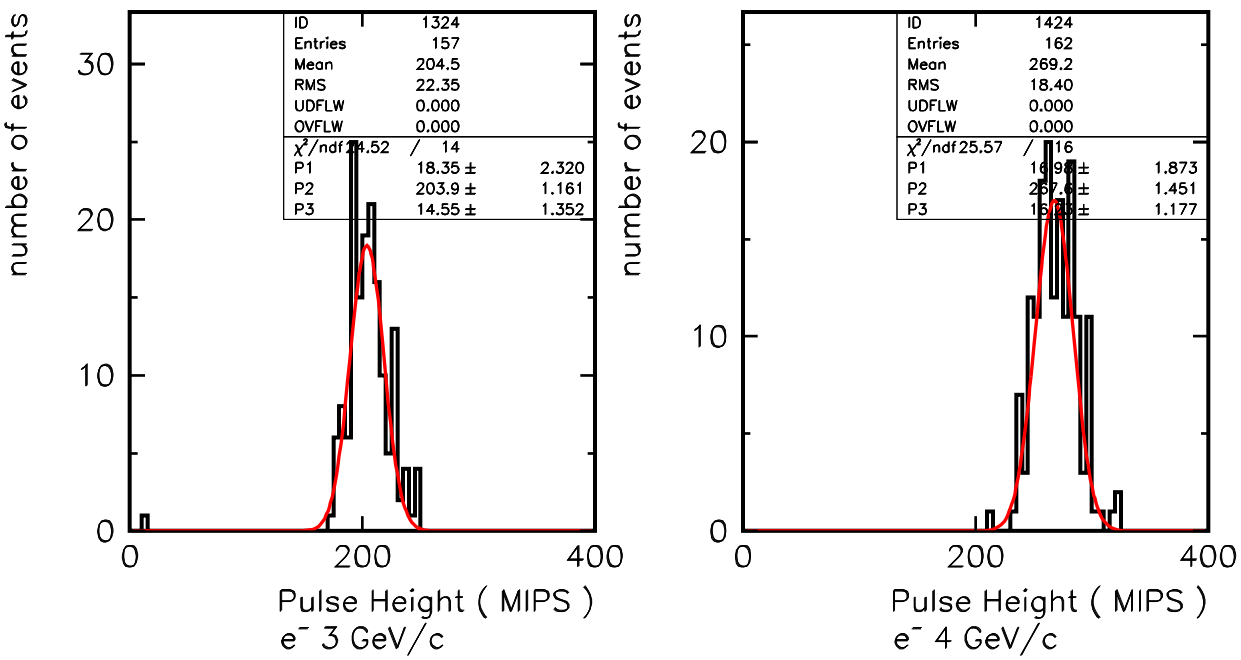


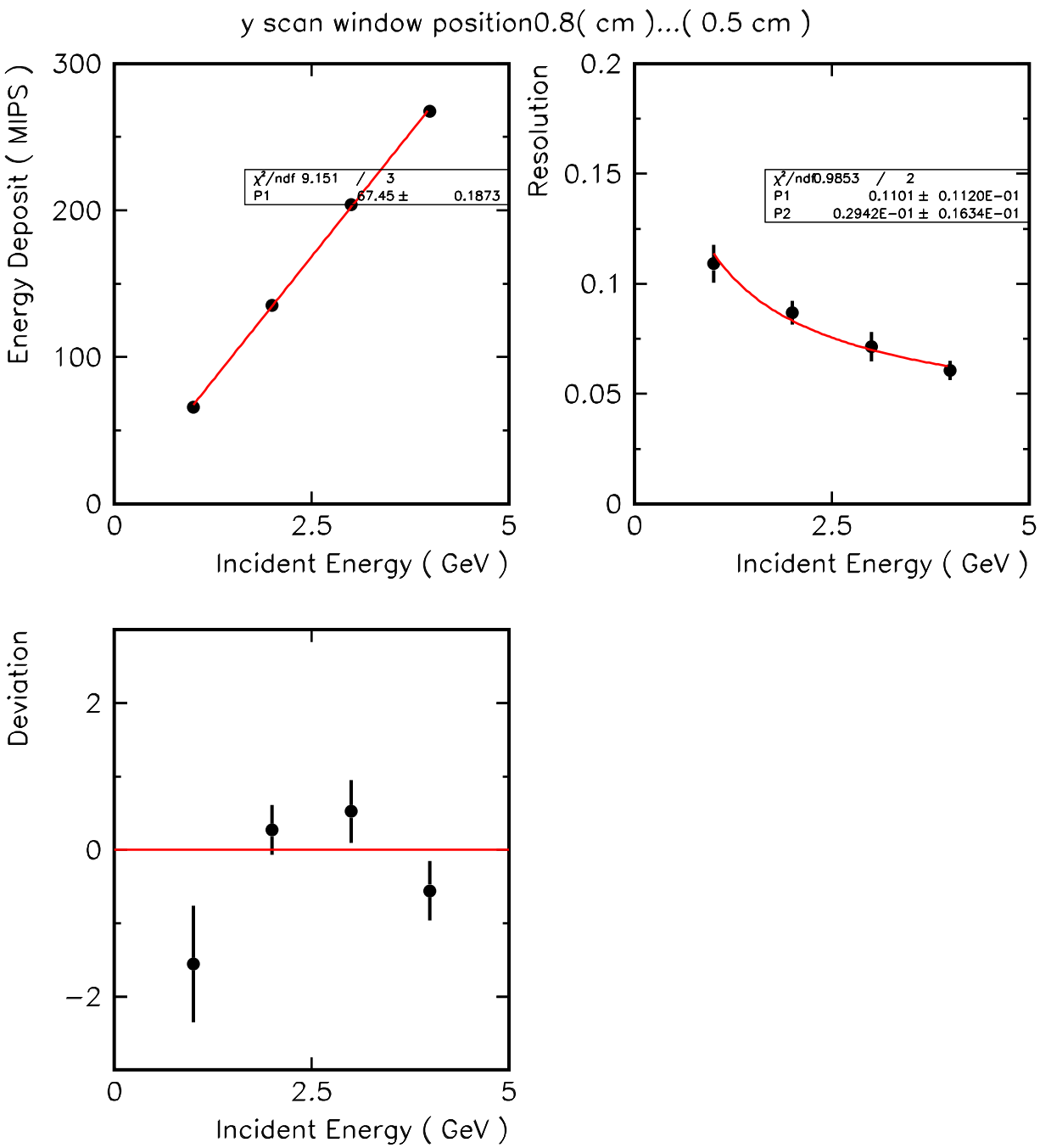


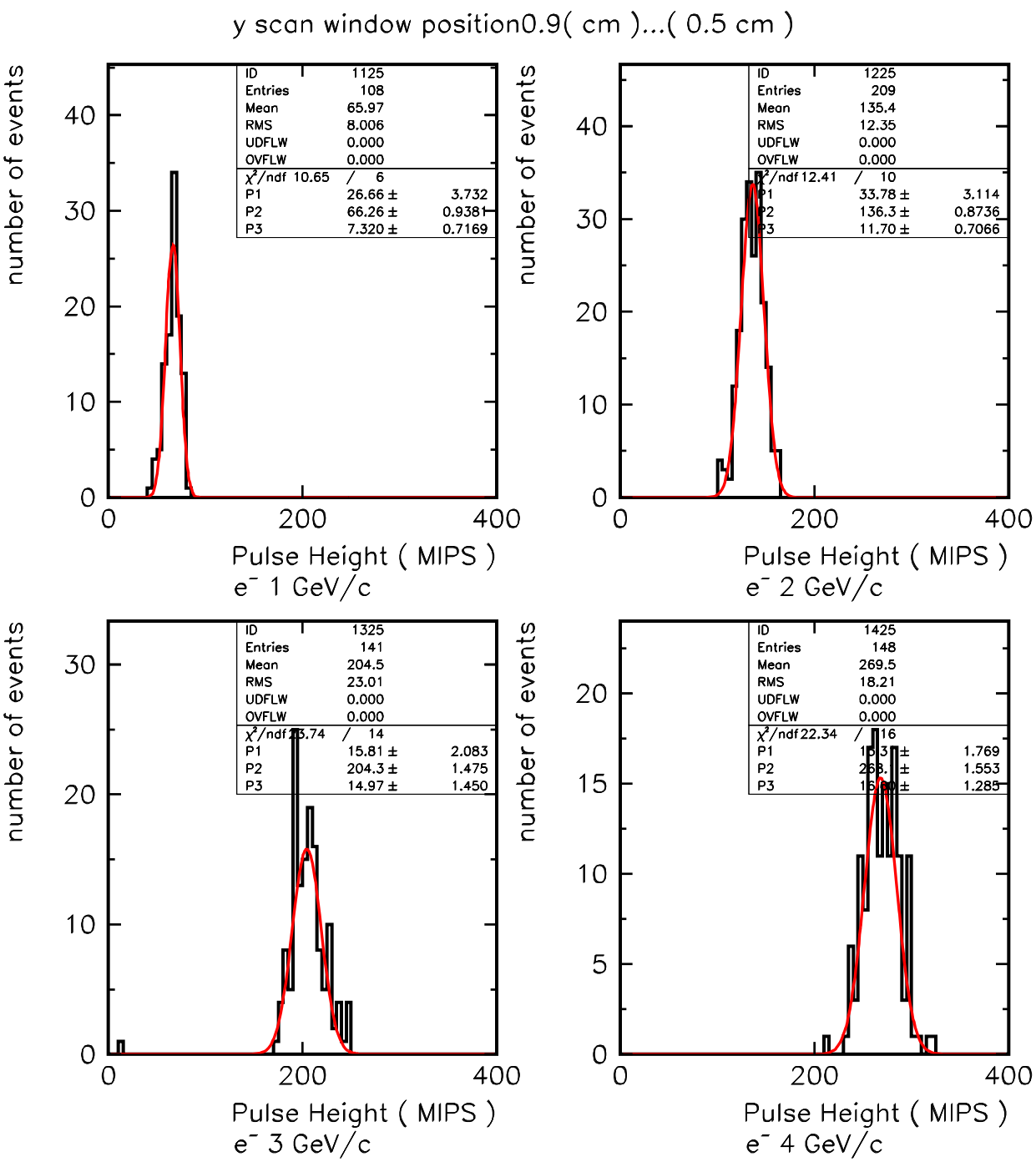

y scan window position0.7(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.224 / 3
P1 67.52 ± 0.2011
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 1.802 / 2
P1 0.1149 ± 0.1478E-01
P2 0.2247E-01 ± 0.2455E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

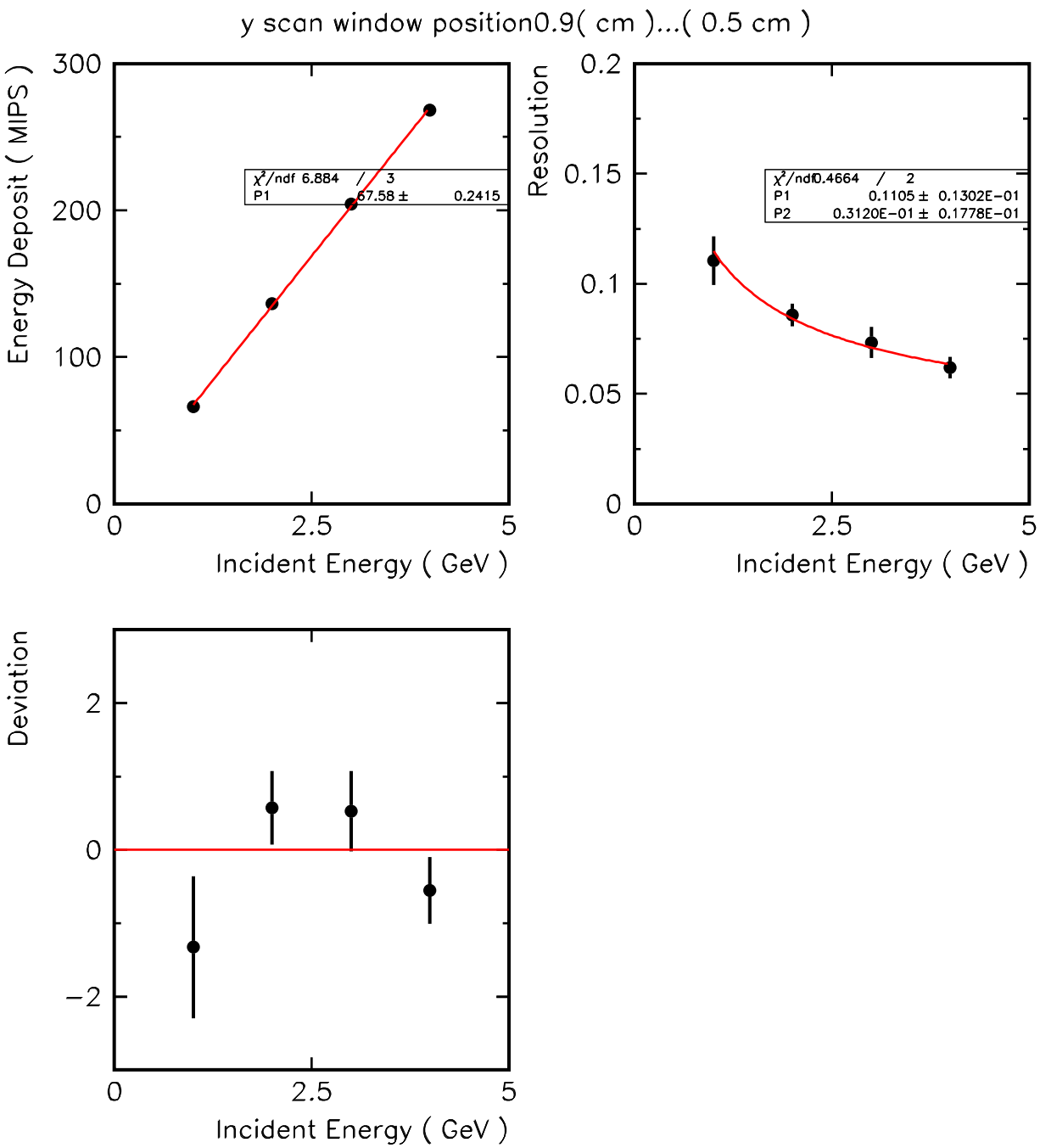
y scan window position0.8(cm)...(0.5 cm)



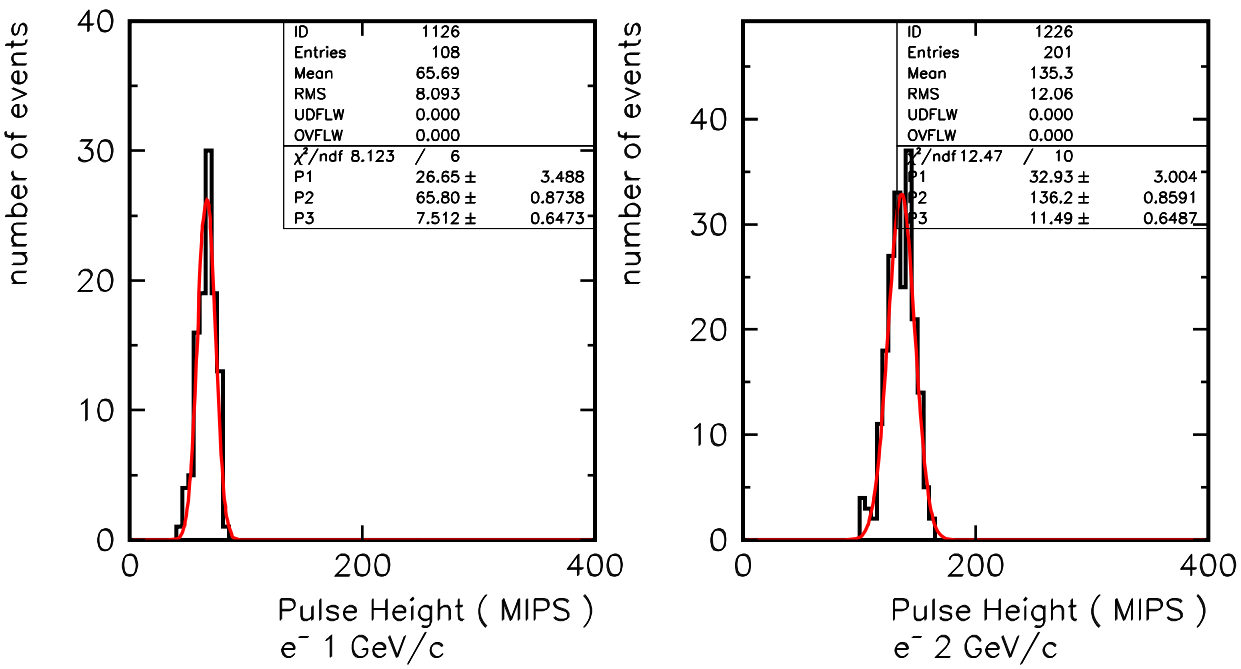


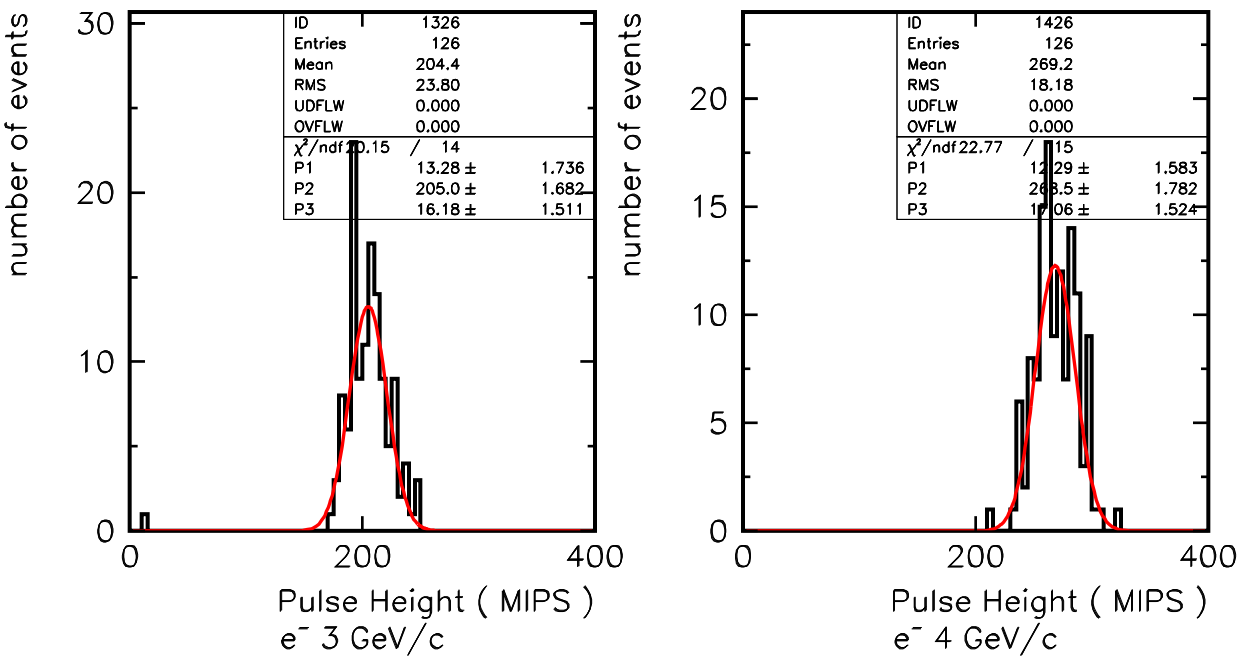

y scan window position0.8(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 9.151 / 3
P1 67.45 ± 0.1873
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 0.9853 / 2
P1 0.1101 ± 0.1120E-01
P2 0.2942E-01 ± 0.1634E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

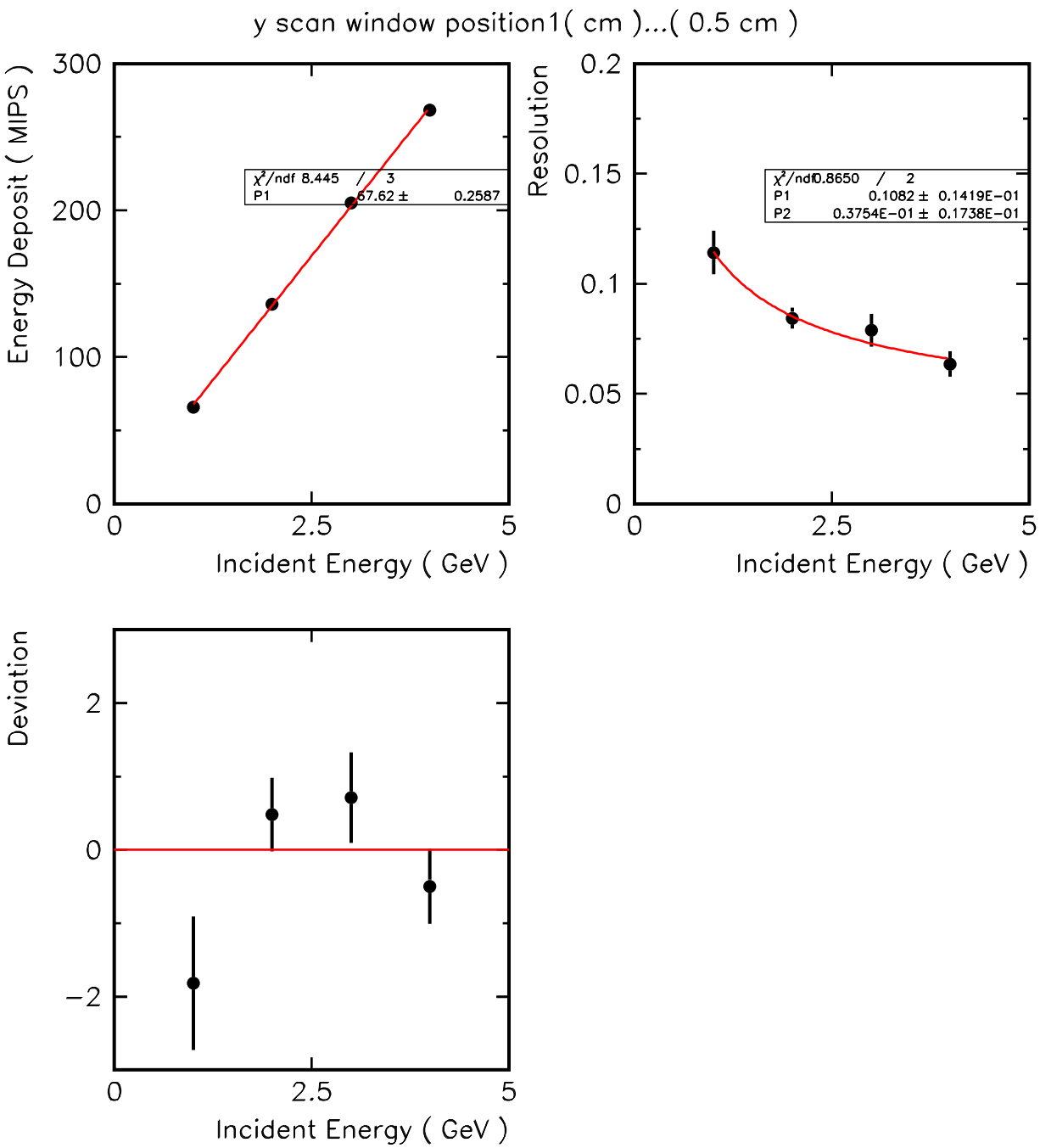

y scan window position0.9(cm)...(0.5 cm)
number of events
ID 1125
Entries 108
Mean 65.97
RMS 8.006
UDFLW 0.000
OVFLW 0.000
χ²/ndf 10.65 / 6
P1 26.66 ± 3.732
P2 66.26 ± 0.9381
P3 7.320 ± 0.7169
Pulse Height (MIPS)
e⁻ 1 GeV/c
number of events
ID 1225
Entries 209
Mean 135.4
RMS 12.35
UDFLW 0.000
OVFLW 0.000
χ²/ndf 12.41 / 10
P1 33.78 ± 3.114
P2 136.3 ± 0.8736
P3 11.70 ± 0.7066
Pulse Height (MIPS)
e⁻ 2 GeV/c
number of events
ID 1325
Entries 141
Mean 204.5
RMS 23.01
UDFLW 0.000
OVFLW 0.000
χ²/ndf 13.74 / 14
P1 15.81 ± 2.083
P2 204.3 ± 1.475
P3 14.97 ± 1.450
Pulse Height (MIPS)
e⁻ 3 GeV/c
number of events
ID 1425
Entries 148
Mean 269.5
RMS 18.21
UDFLW 0.000
OVFLW 0.000
χ²/ndf 22.34 / 16
P1 15.33 ± 1.769
P2 268. ± 1.553
P3 16.60 ± 1.285
Pulse Height (MIPS)
e⁻ 4 GeV/c

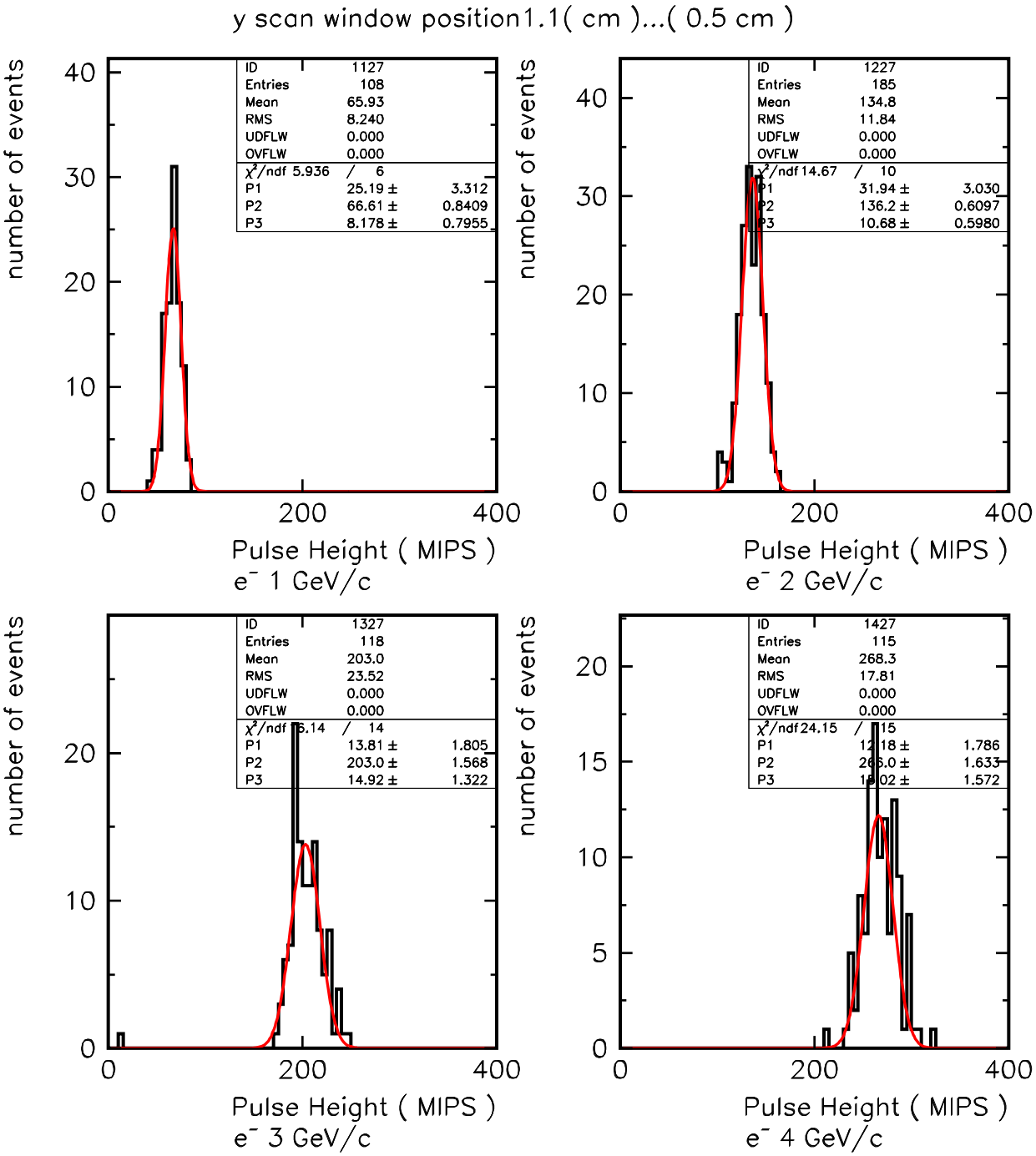

y scan window position0.9(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.884 / 3
P1 67.58 ± 0.2415
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 0.4664 / 2
P1 0.1105 ± 0.1302E-01
P2 0.3120E-01 ± 0.1778E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

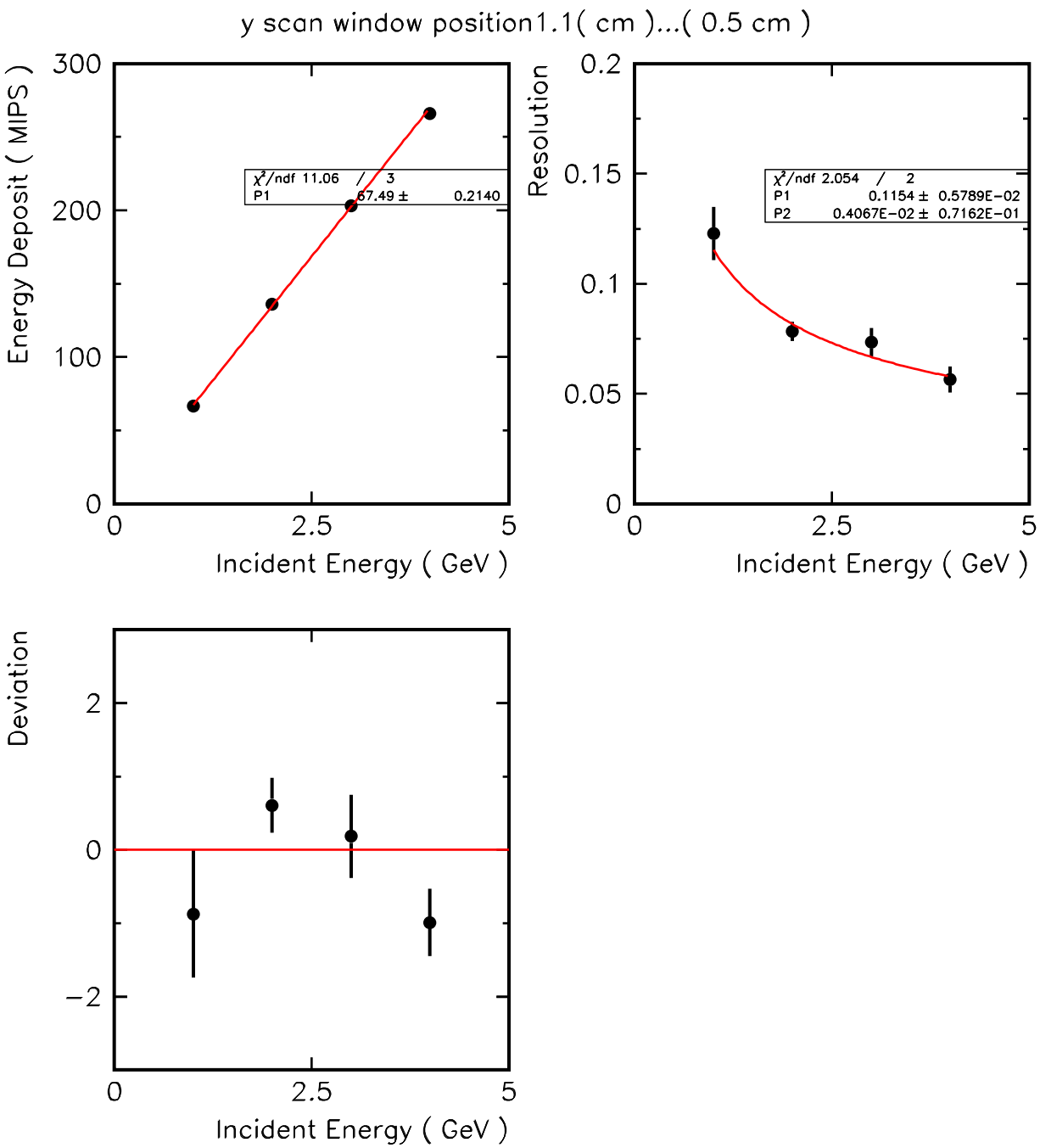
y scan window position1(cm)...(0.5 cm)



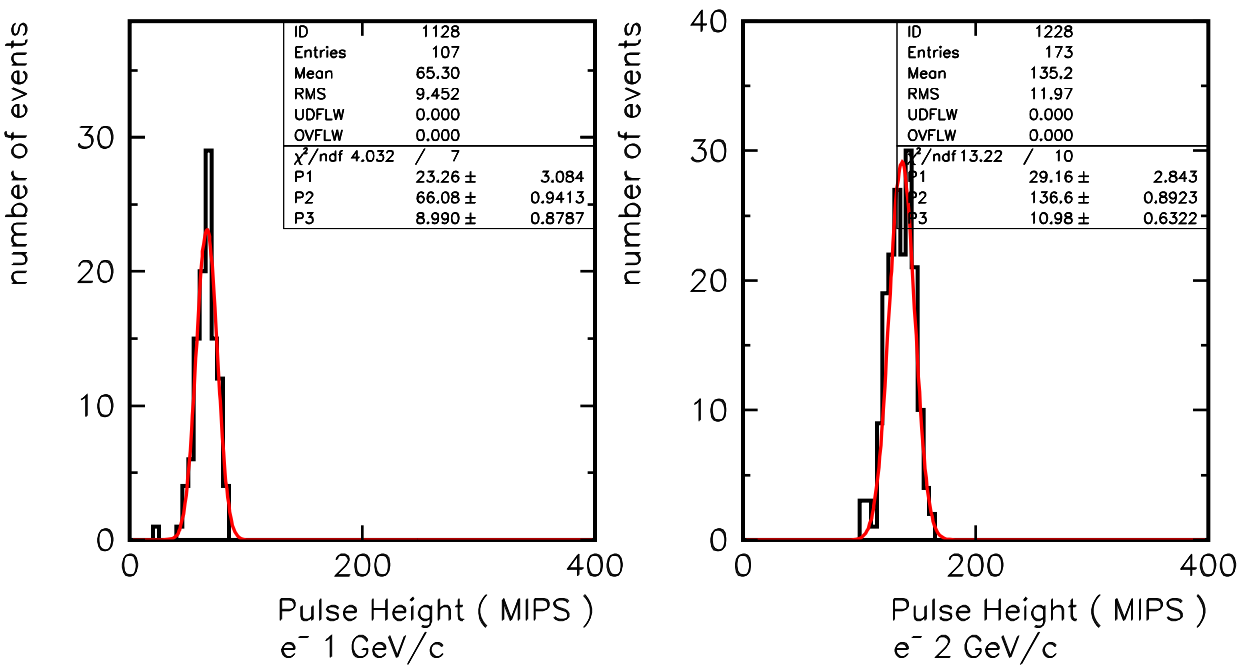


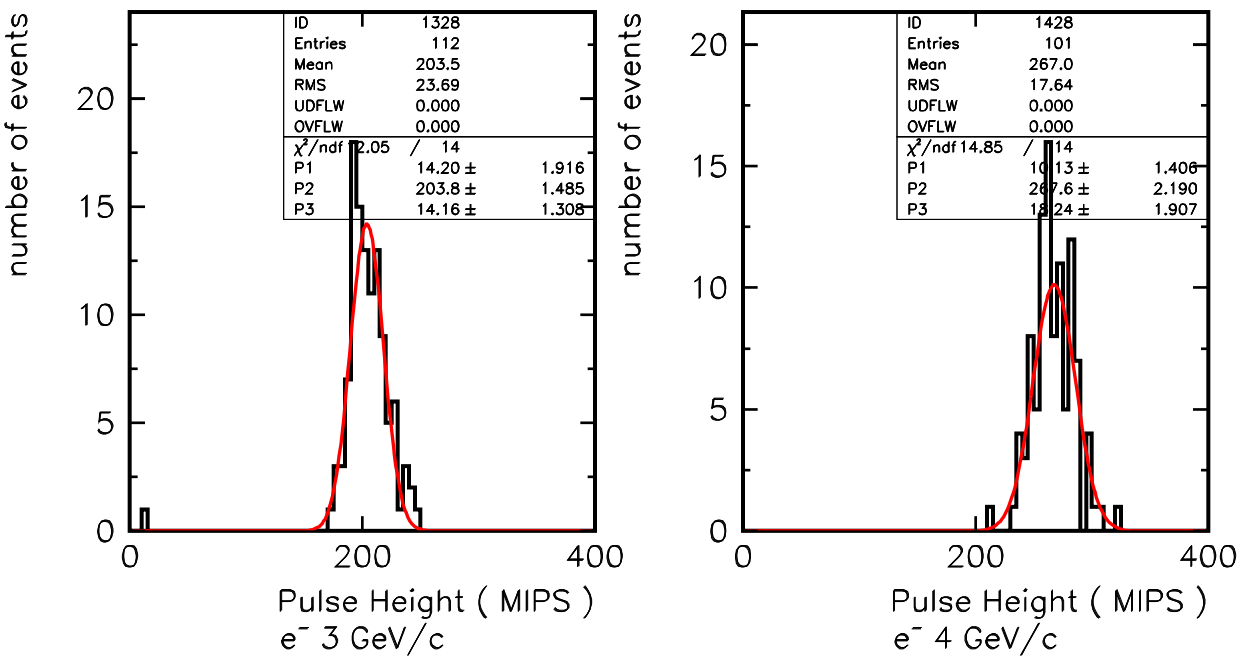

y scan window position1(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 8.445 / 3
P1 67.62 ± 0.2587
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 0.8650 / 2
P1 0.1082 ± 0.1419E-01
P2 0.3754E-01 ± 0.1738E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

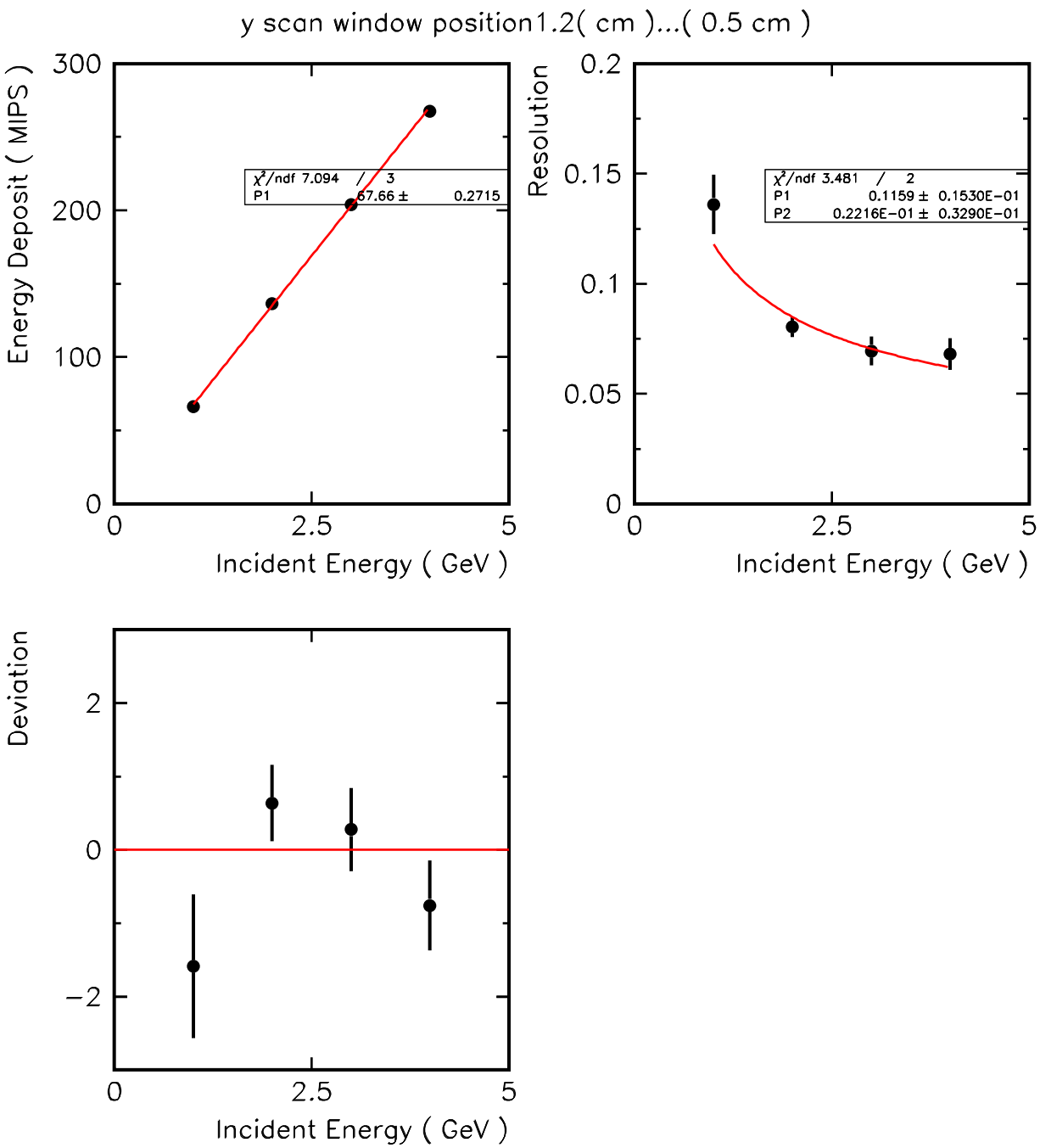

y scan window position1.1(cm)...(0.5 cm)
number of events
ID 1127
Entries 108
Mean 65.93
RMS 8.240
UDFLW 0.000
OVFLW 0.000
χ²/ndf 5.936 / 6
P1 25.19 ± 3.312
P2 66.61 ± 0.8409
P3 8.178 ± 0.7955
Pulse Height (MIPS)
e⁻ 1 GeV/c
ID 1227
Entries 185
Mean 134.8
RMS 11.84
UDFLW 0.000
OVFLW 0.000
χ²/ndf 14.67 / 10
P1 31.94 ± 3.030
P2 136.2 ± 0.6097
P3 10.68 ± 0.5980
Pulse Height (MIPS)
e⁻ 2 GeV/c
ID 1327
Entries 118
Mean 203.0
RMS 23.52
UDFLW 0.000
OVFLW 0.000
χ²/ndf 16.14 / 14
P1 13.81 ± 1.805
P2 203.0 ± 1.568
P3 14.92 ± 1.322
Pulse Height (MIPS)
e⁻ 3 GeV/c
ID 1427
Entries 115
Mean 268.3
RMS 17.81
UDFLW 0.000
OVFLW 0.000
χ²/ndf 24.15 / 15
P1 12.18 ± 1.786
P2 266.0 ± 1.633
P3 14.02 ± 1.572
Pulse Height (MIPS)
e⁻ 4 GeV/c


y scan window position1.1(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 11.06 / 3
P1 67.49 ± 0.2140
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 2.054 / 2
P1 0.1154 ± 0.5789E-02
P2 0.4067E-02 ± 0.7162E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

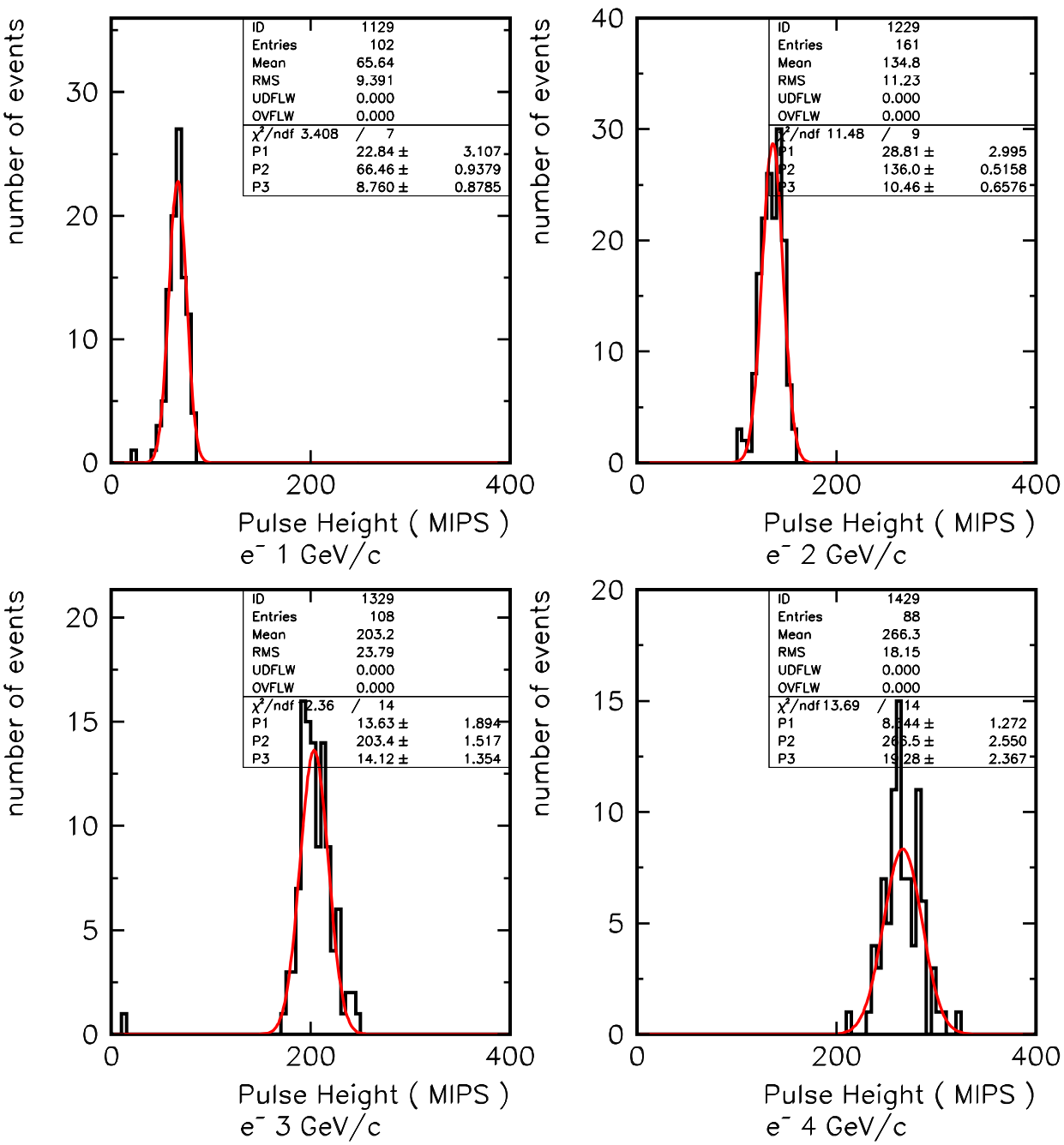
y scan window position1.2(cm)...(0.5 cm)

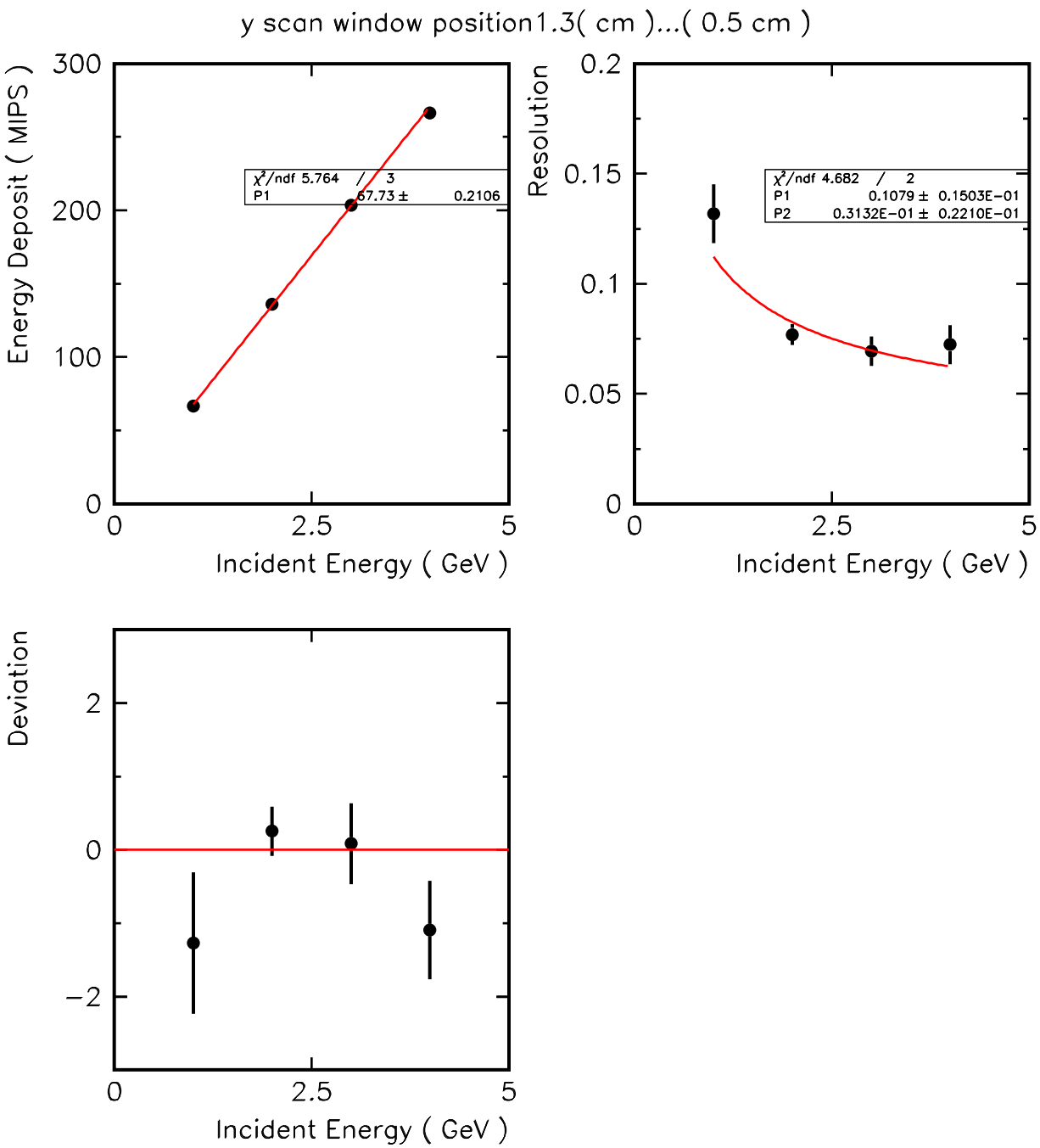




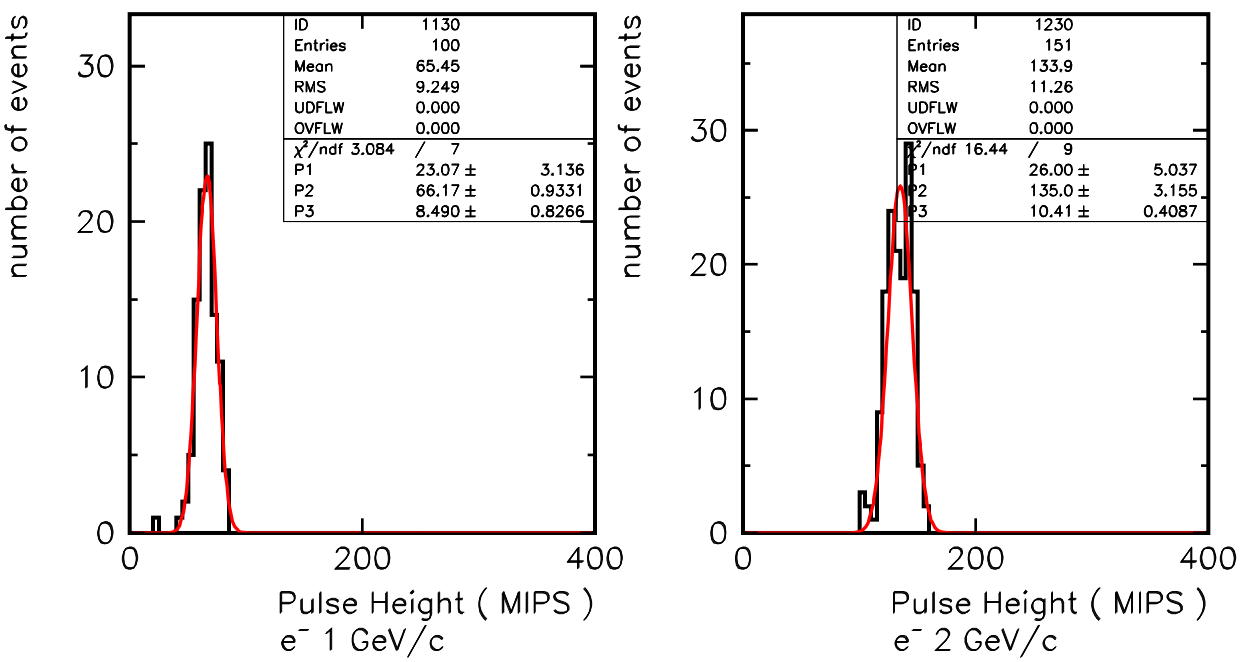

y scan window position1.2(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 7.094 / 3
P1 67.66 ± 0.2715
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 3.481 / 2
P1 0.1159 ± 0.1530E-01
P2 0.2216E-01 ± 0.3290E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

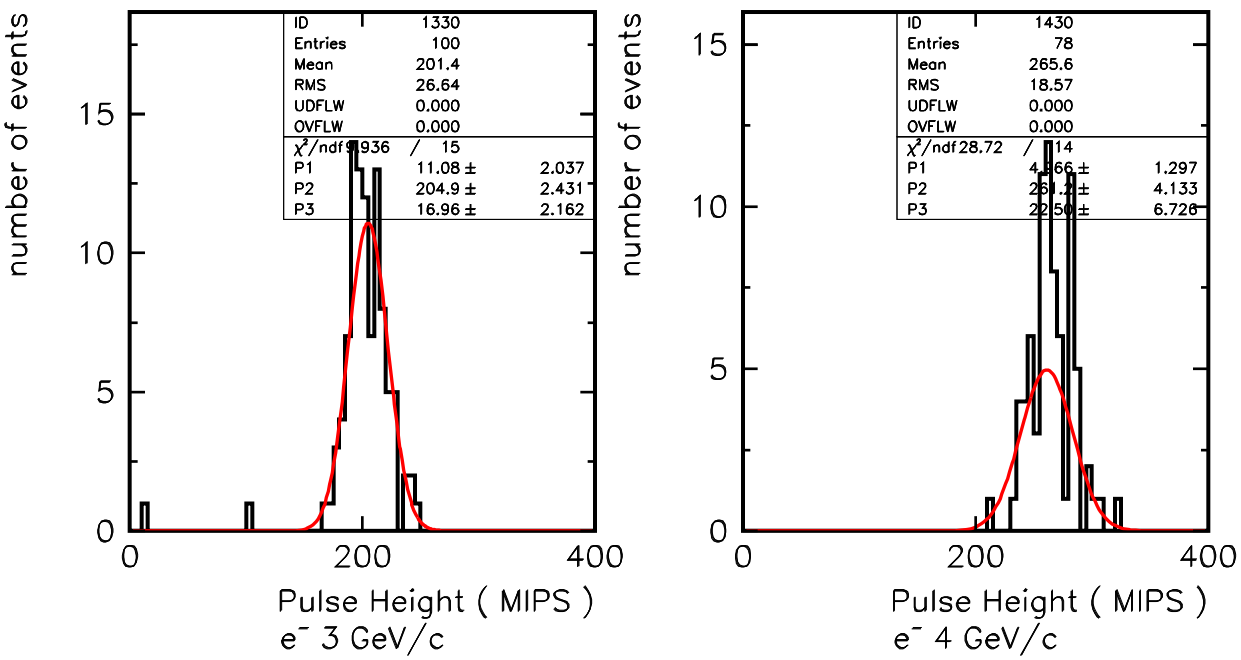
y scan window position1.3(cm)...(0.5 cm)

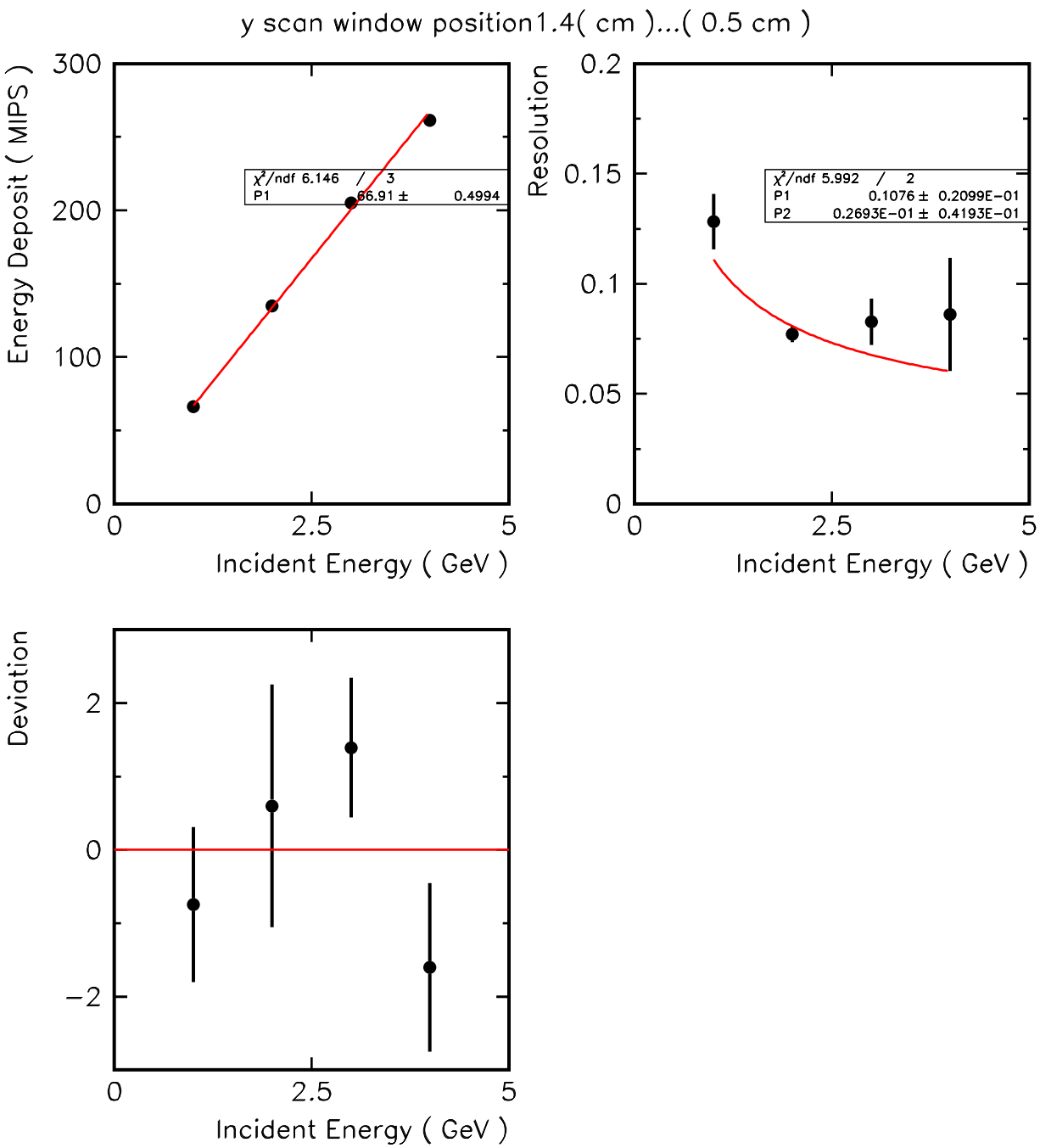



y scan window position1.3(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 5.764 / 3
P1 67.73 ± 0.2106
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.682 / 2
P1 0.1079 ± 0.1503E-01
P2 0.3132E-01 ± 0.2210E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

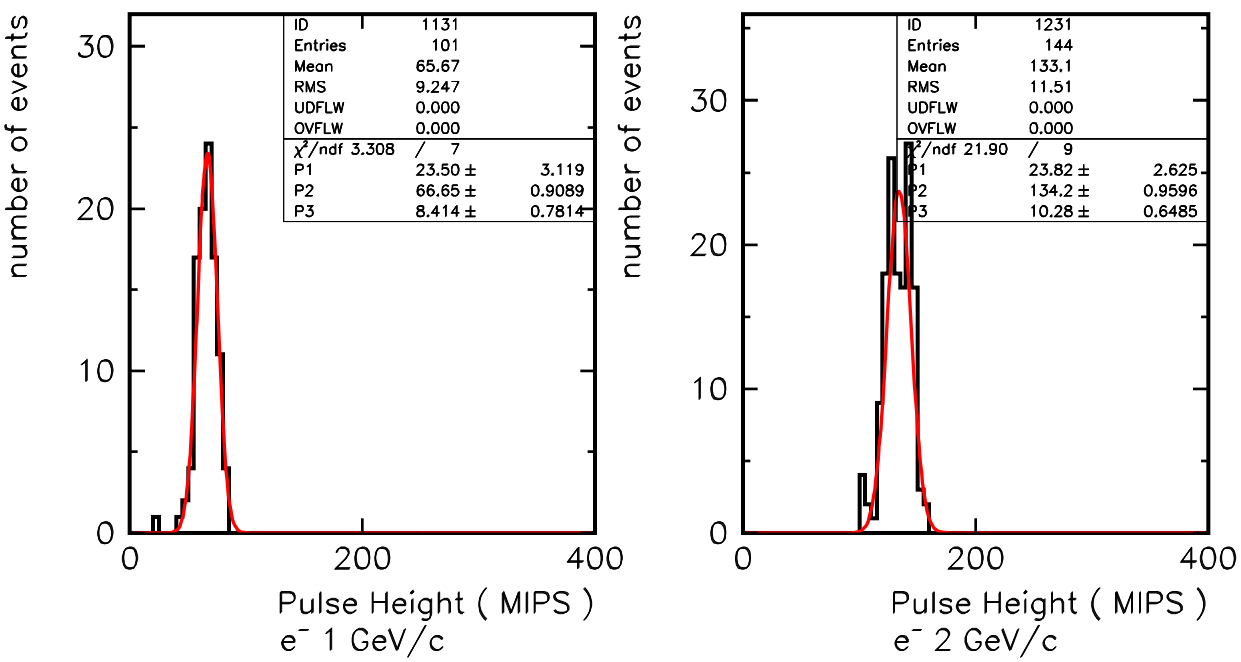
y scan window position1.4(cm)...(0.5 cm)

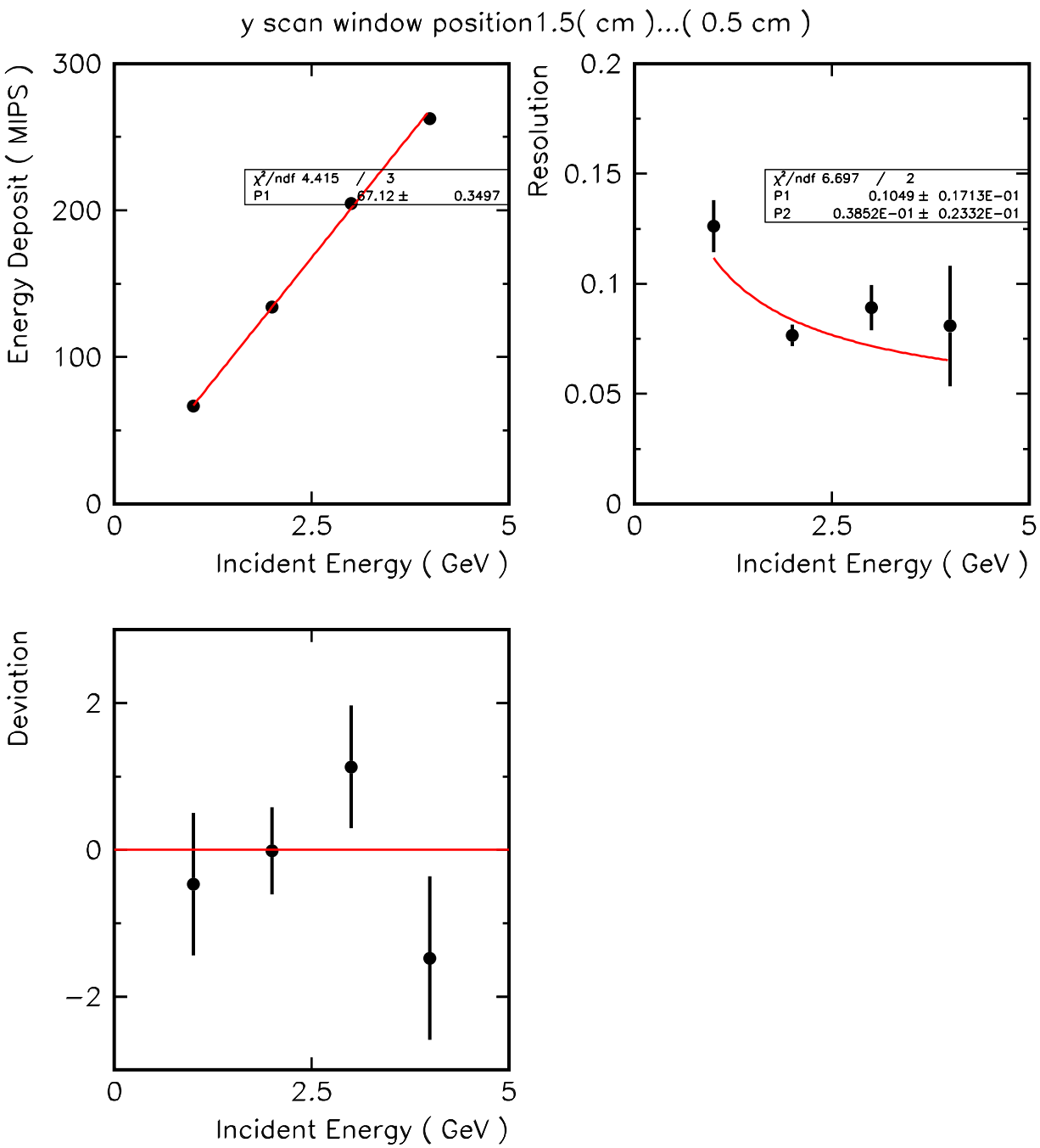


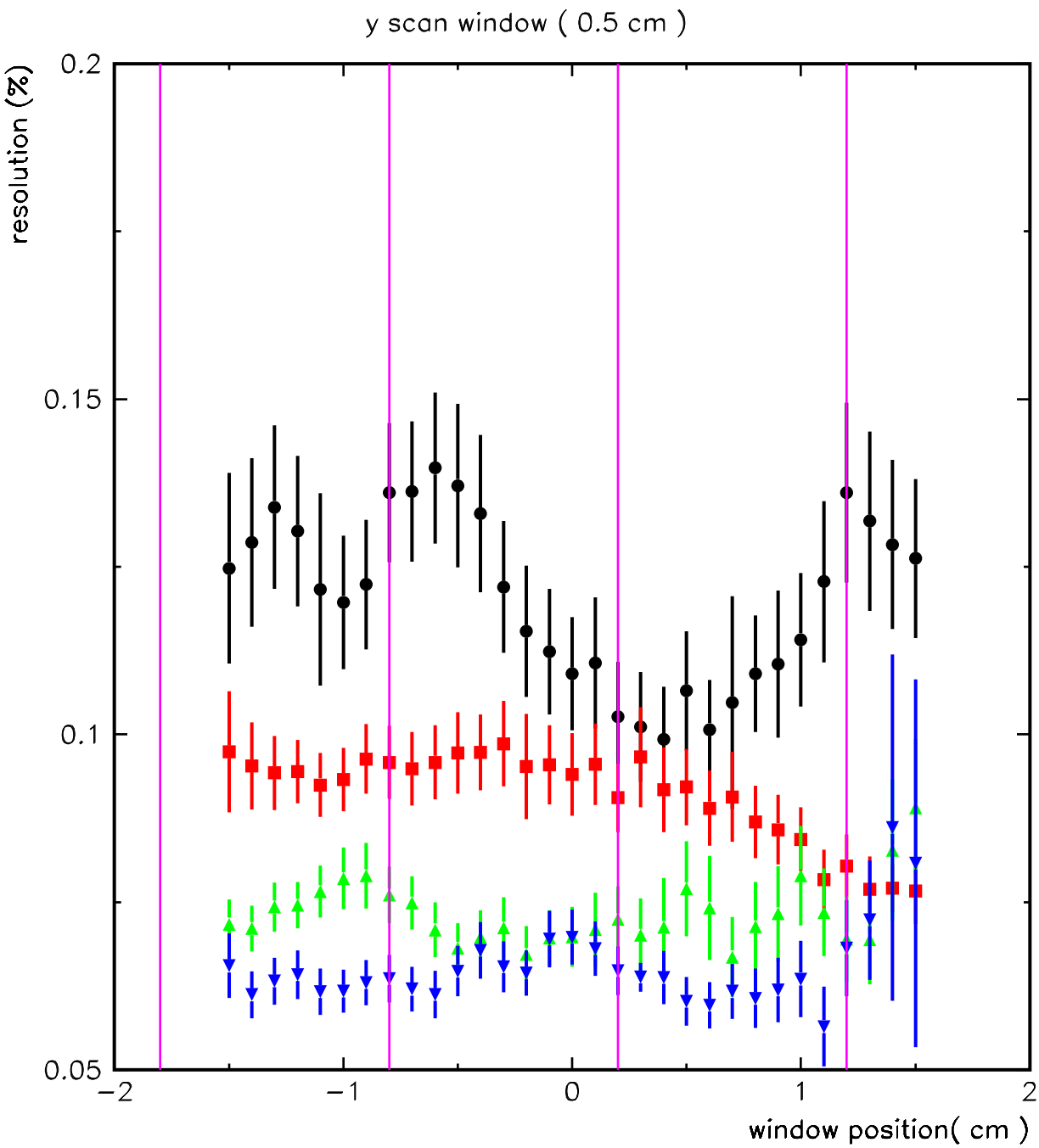


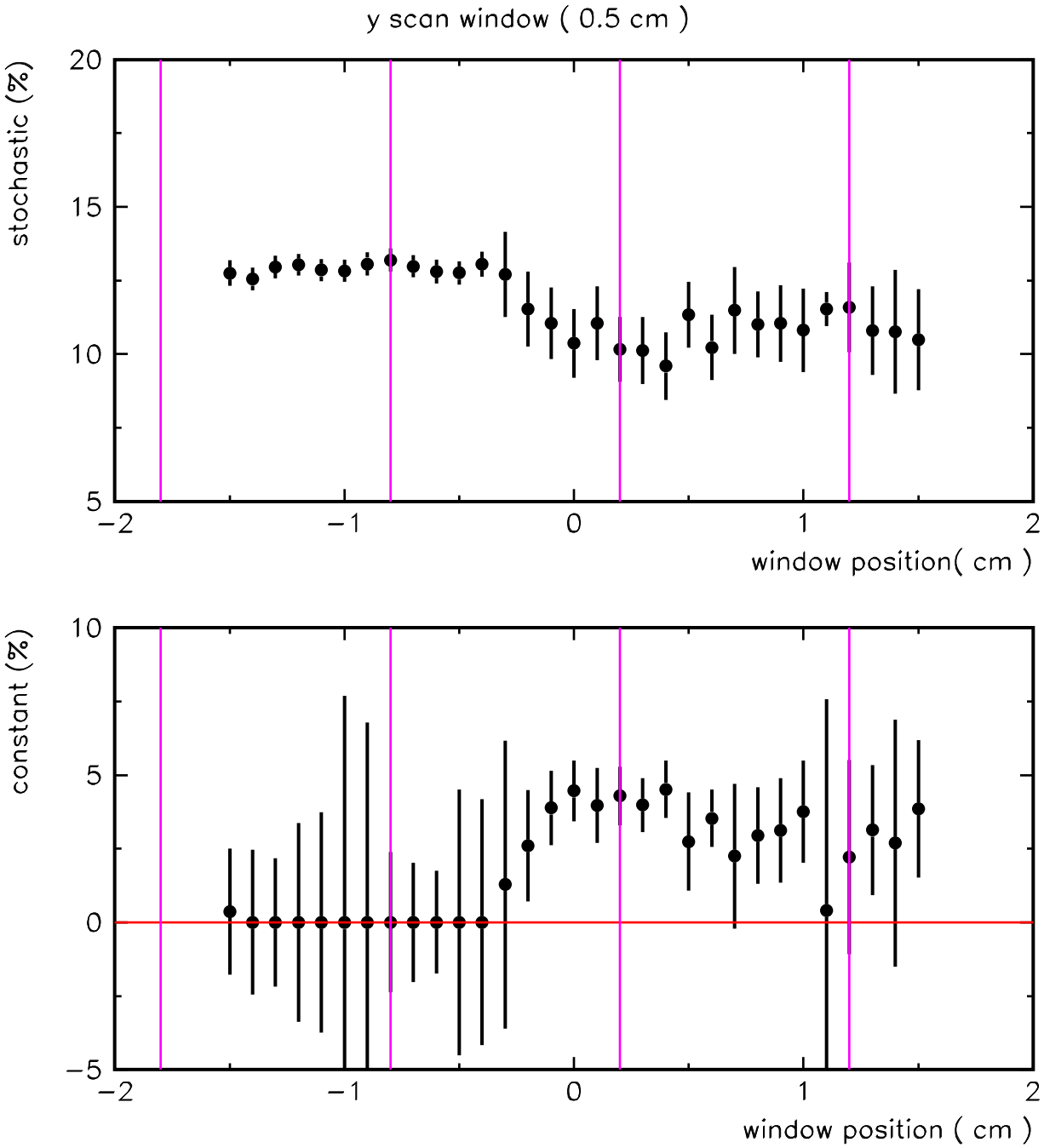

y scan window position1.4(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.146 / 3
P1 66.91 ± 0.4994
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 5.992 / 2
P1 0.1076 ± 0.2099E-01
P2 0.2693E-01 ± 0.4193E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)

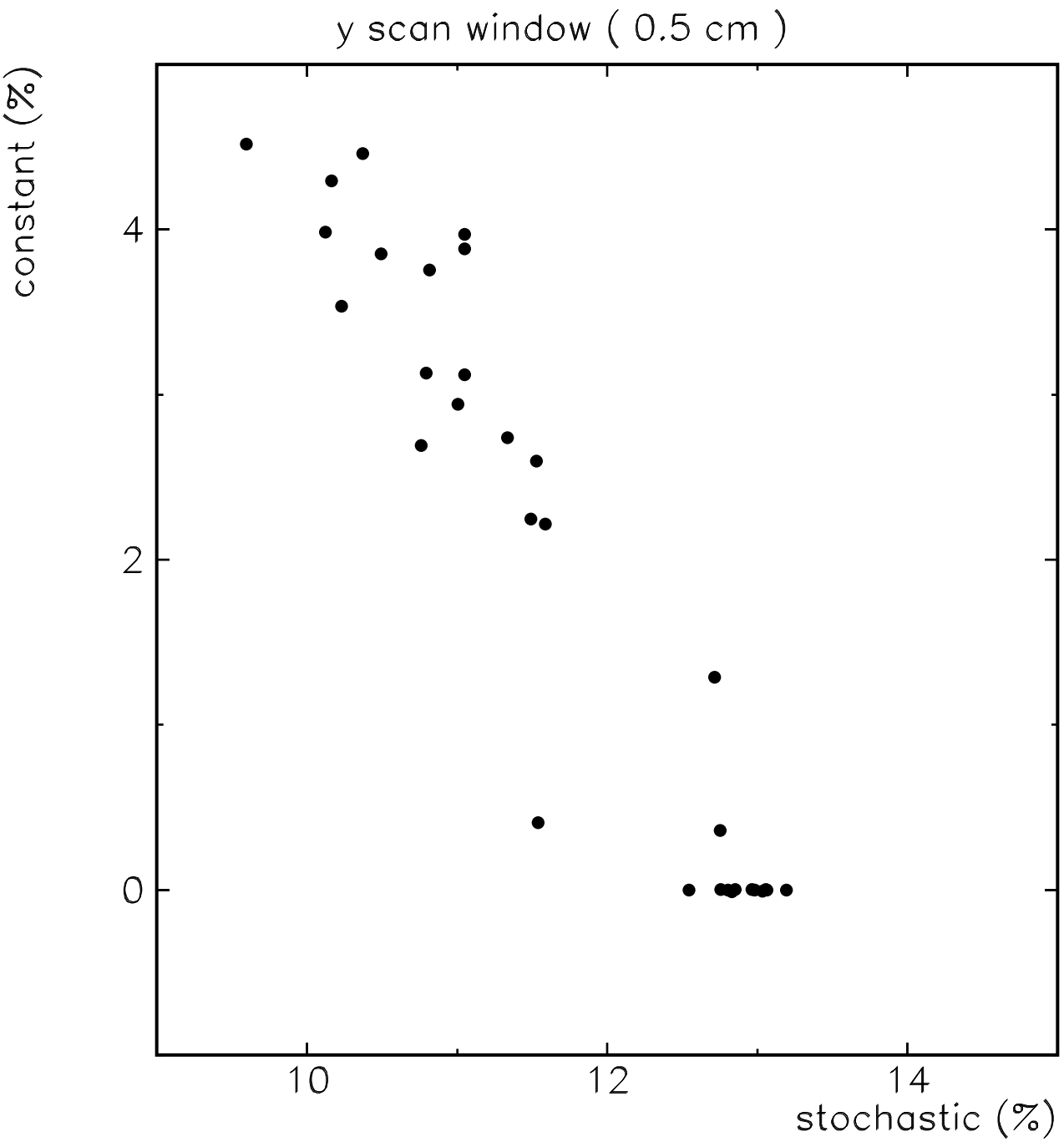
y scan window position1.5(cm)...(0.5 cm)




y scan window position1.5(cm)...(0.5 cm)
Energy Deposit (MIPS)
300
200
100
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 4.415 / 3
P1 67.12 ± 0.3497
Resolution
0.2
0.15
0.1
0.05
0
0
2.5
5
Incident Energy (GeV)
χ²/ndf 6.697 / 2
P1 0.1049 ± 0.1713E-01
P2 0.3852E-01 ± 0.2332E-01
Deviation
2
0
−2
0
2.5
5
Incident Energy (GeV)


y scan window (0.5 cm)
resolution (%)
0.2
0.15
0.1
0.05
−2
−1
0
1
2
window position(cm)


y scan window (0.5 cm)
stochastic (%)
20
15
10
5
−2
−1
0
1
2
window position(cm)
constant (%)
10
5
0
−5
−2
−1
0
1
2
window position (cm)


y scan window (0.5 cm)
constant (%)
4
2
0
10
12
14
stochastic (%)