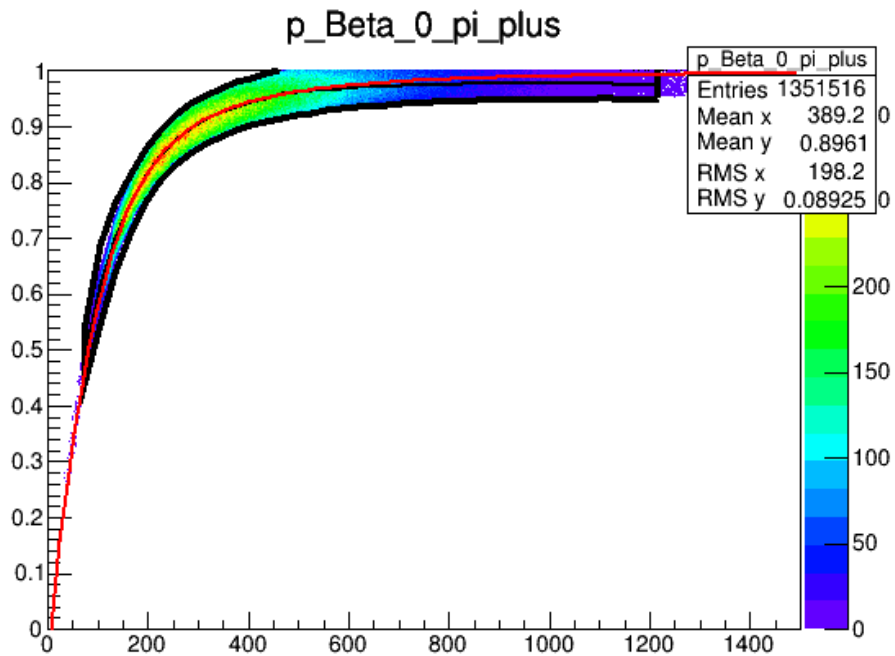
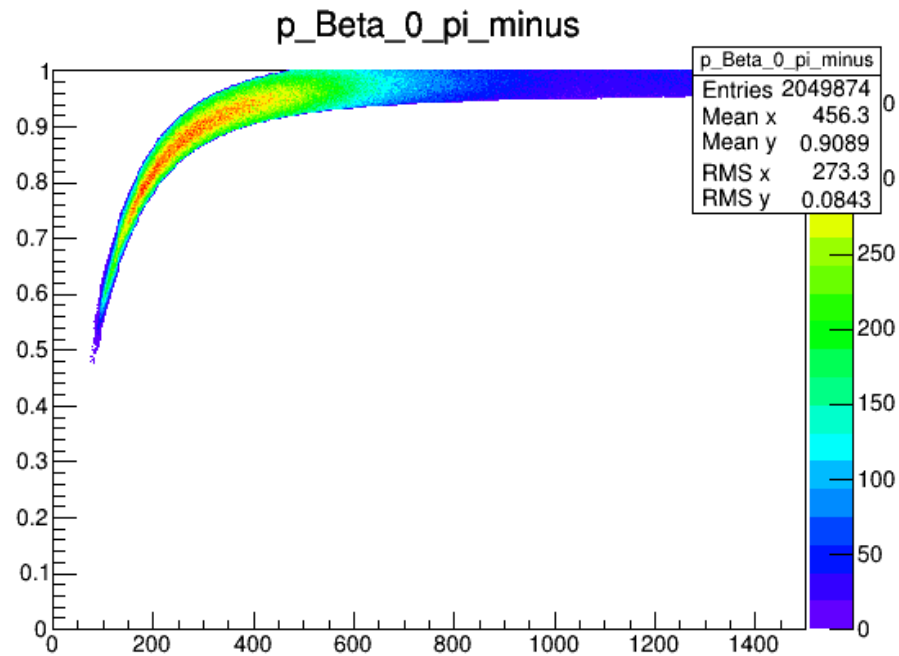
# PID Selection (with beta cut pre-selection)

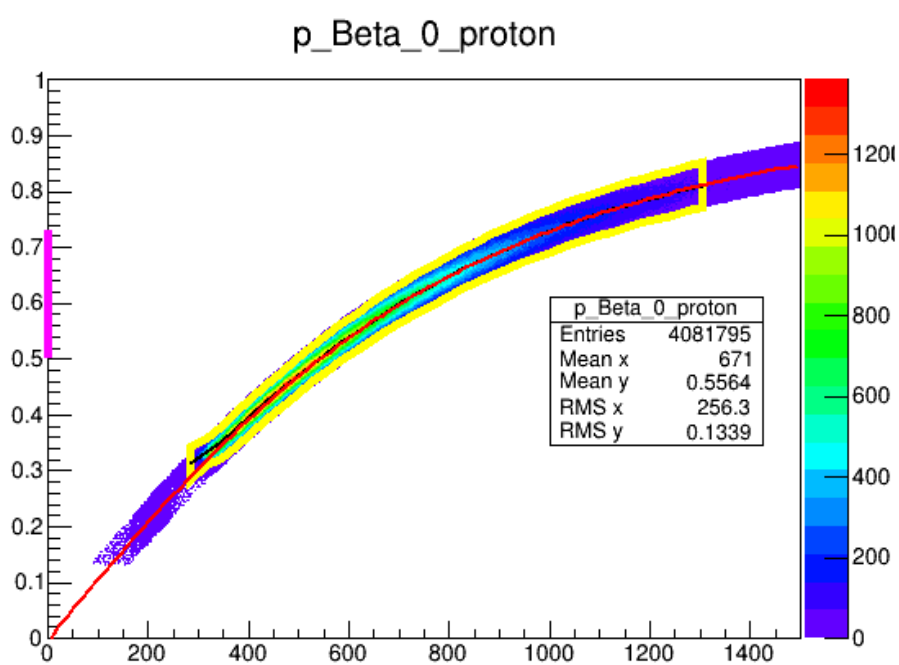
TECHNISCHE UNIVERSITÄT MÜNCHEN

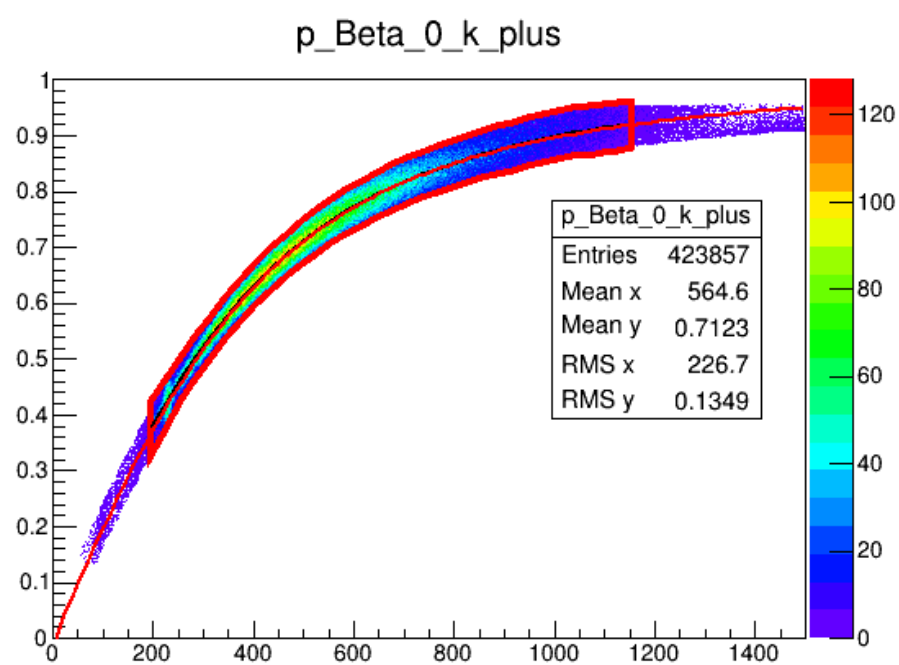
Excellence Cluster Universe

# Beta cuts for detector 0:

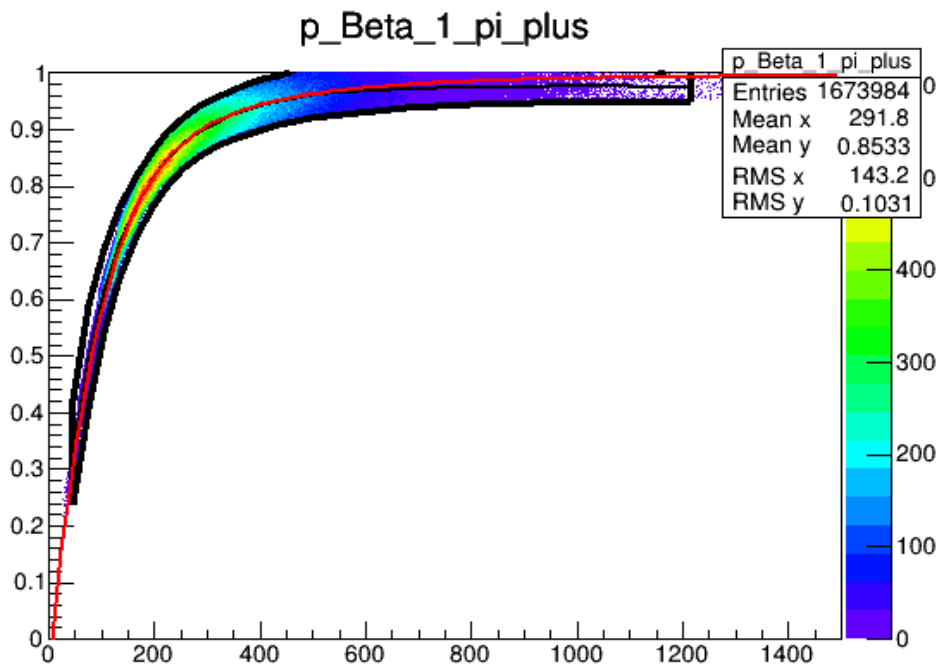


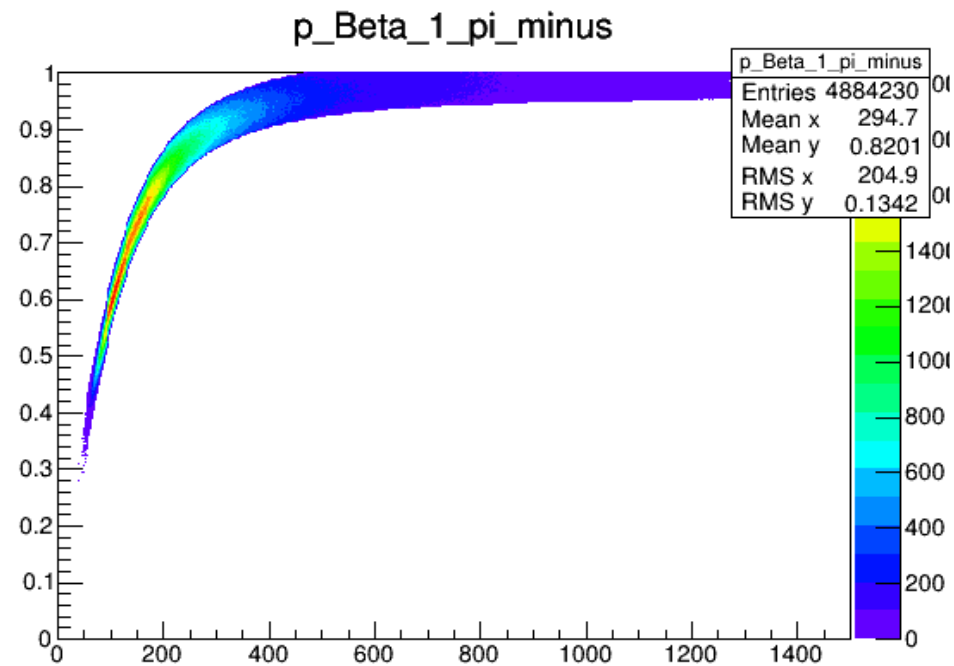



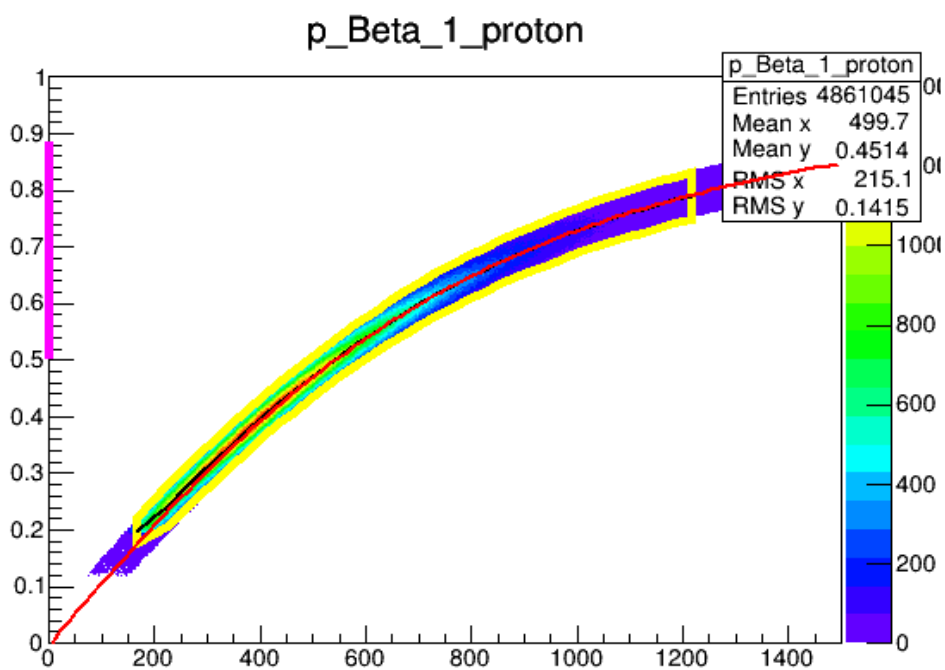



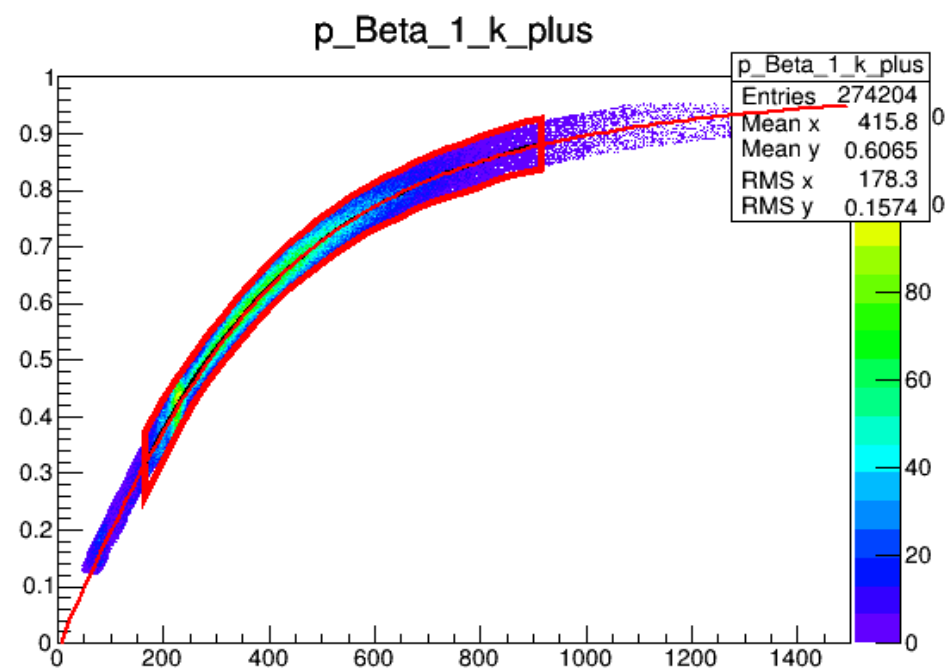



# Beta cuts for detector 1:

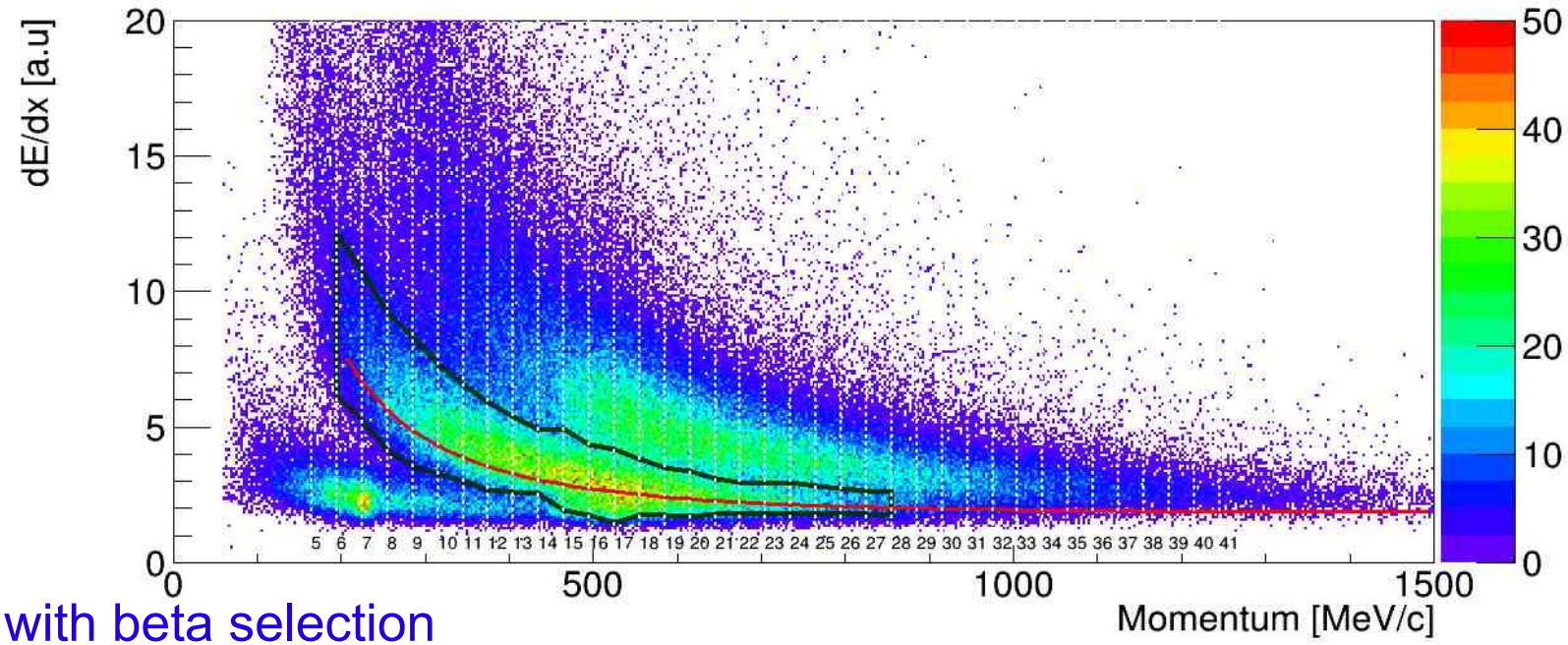


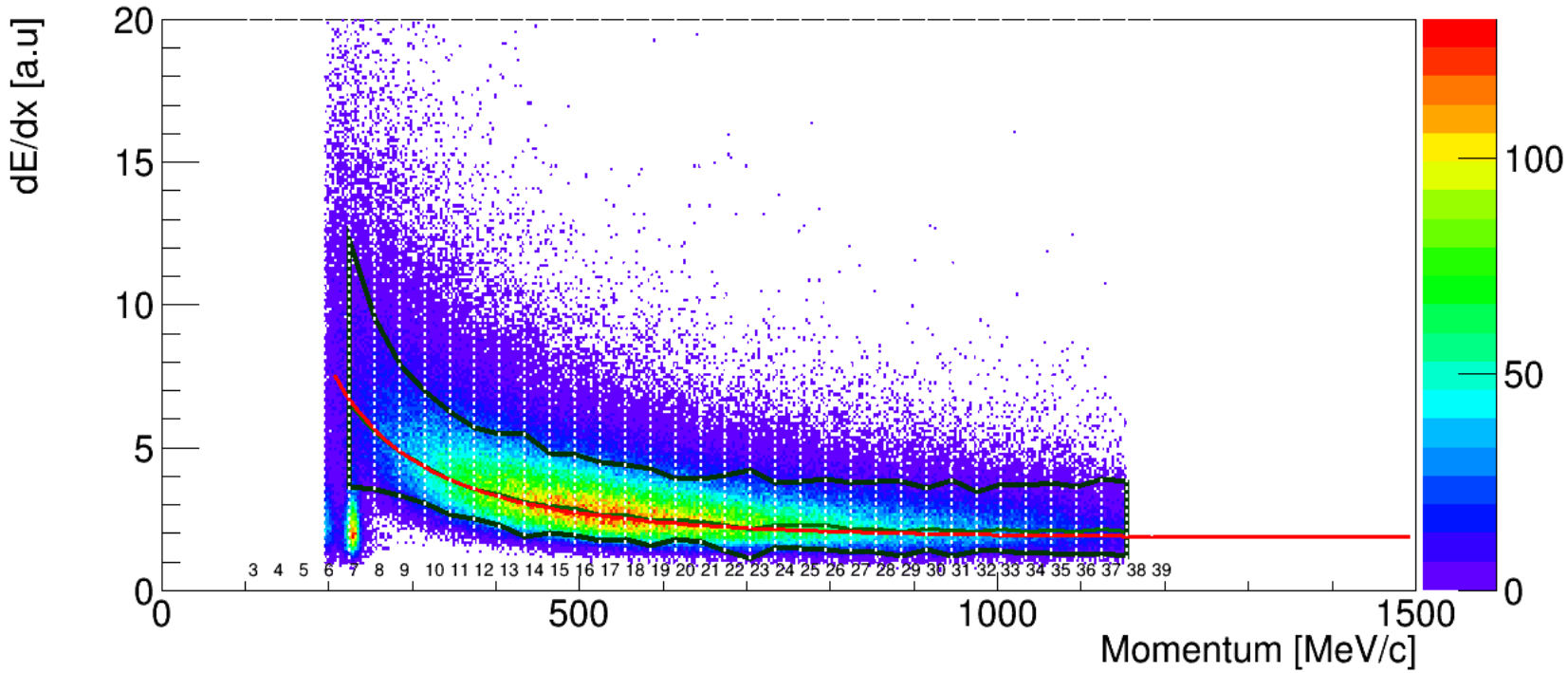



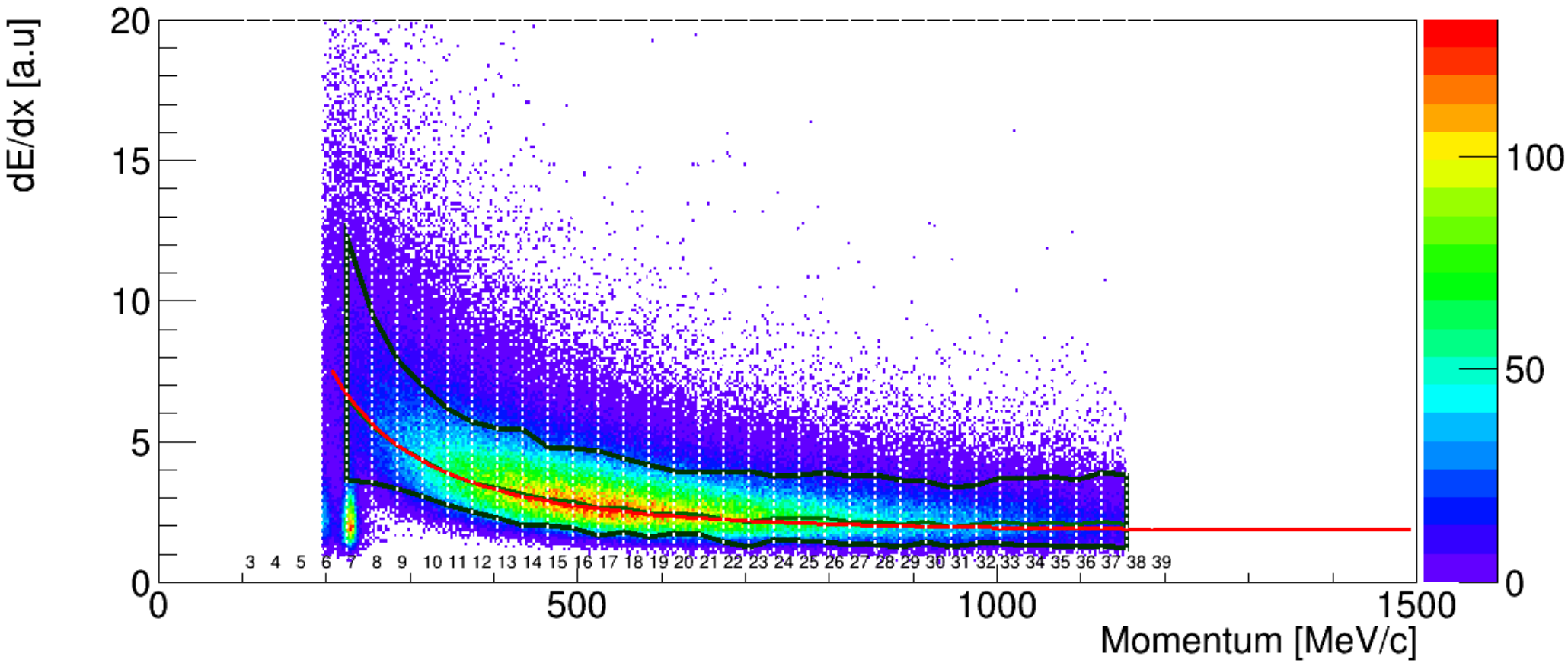
- with mass selection




- with beta selection



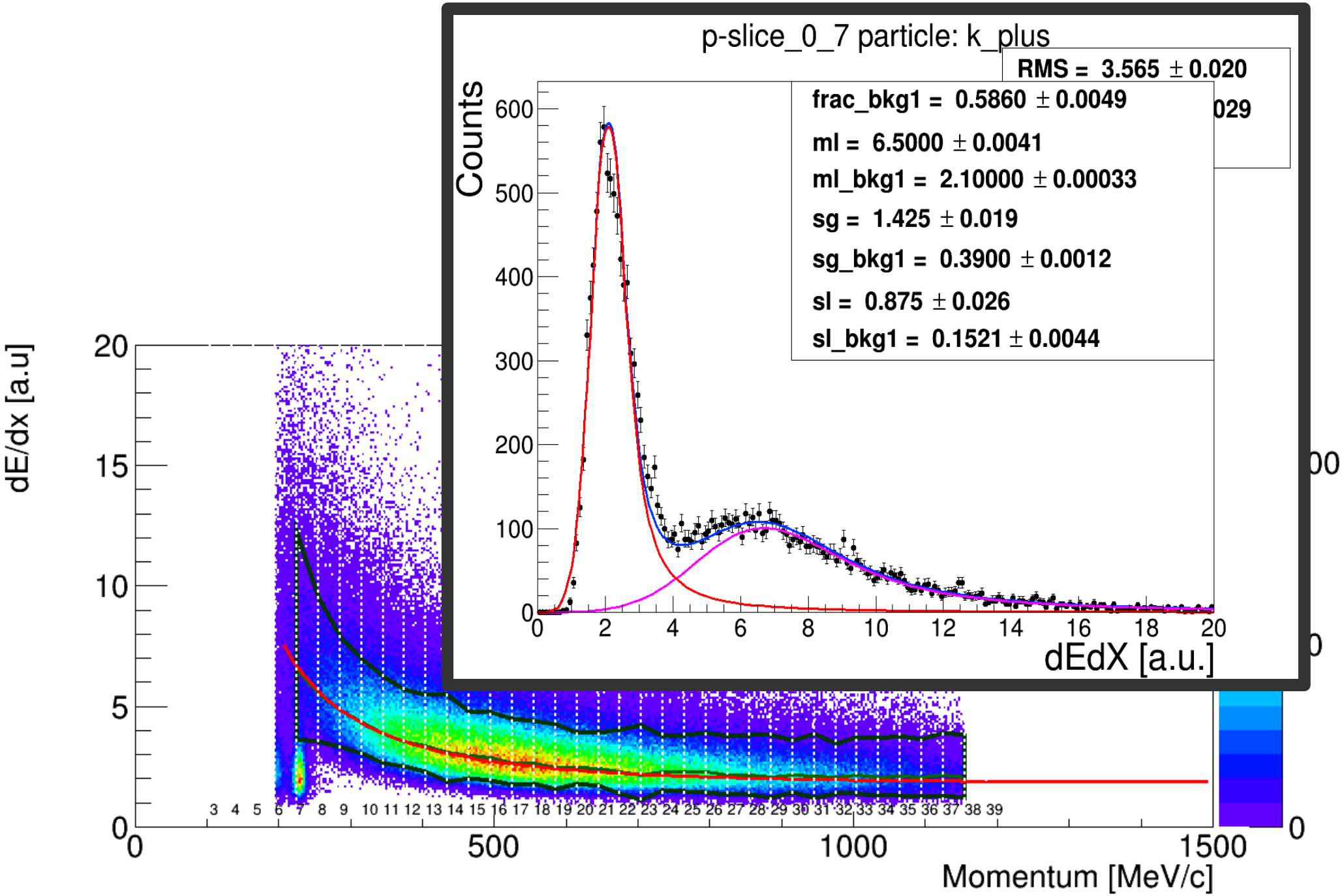
Gauss: Detector Resolution
Landau: dE/dx
---> Convolution of Landau and Gauss

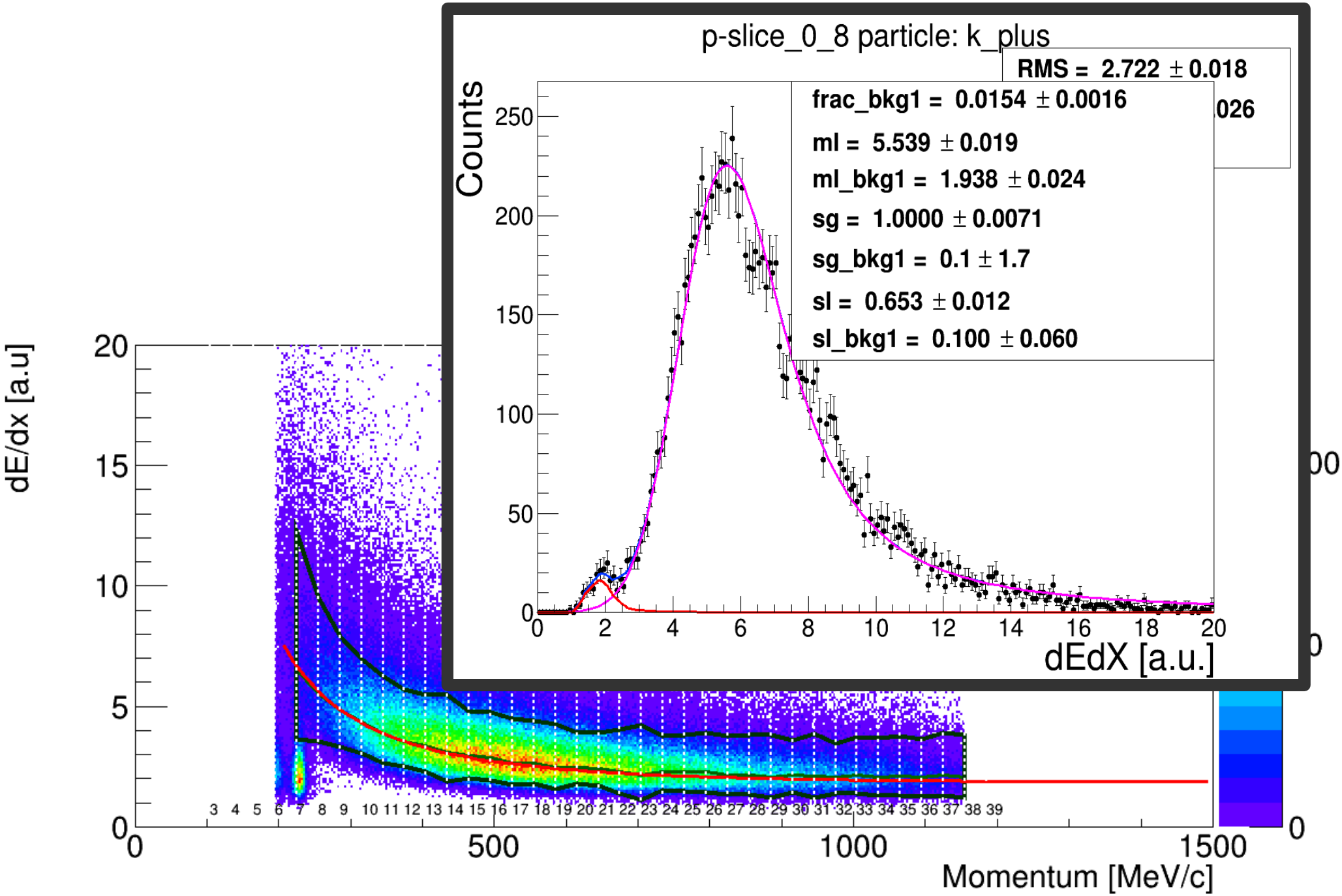


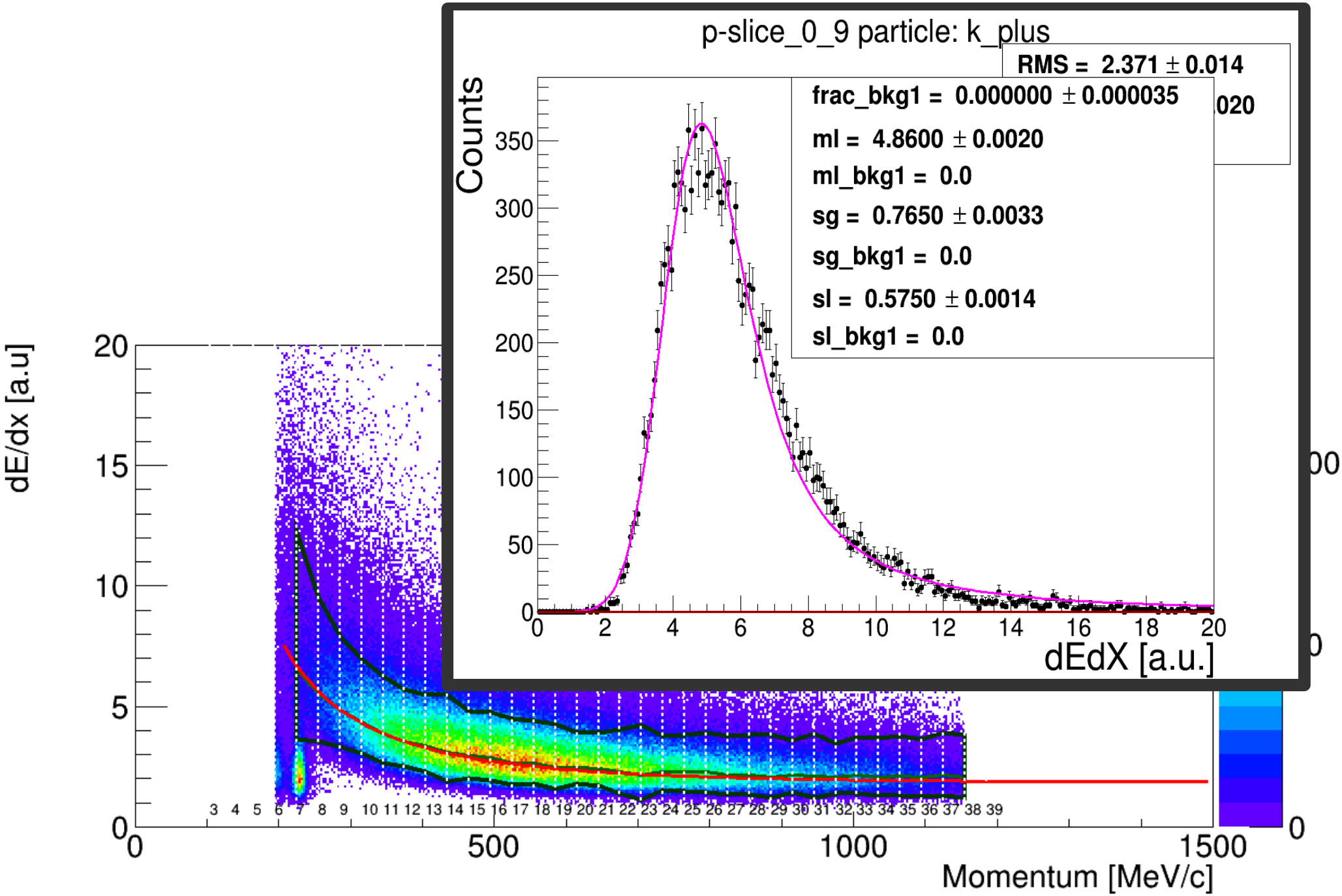

$$\sigma = \sqrt{((sg^2 + sl^2)/2)}$$

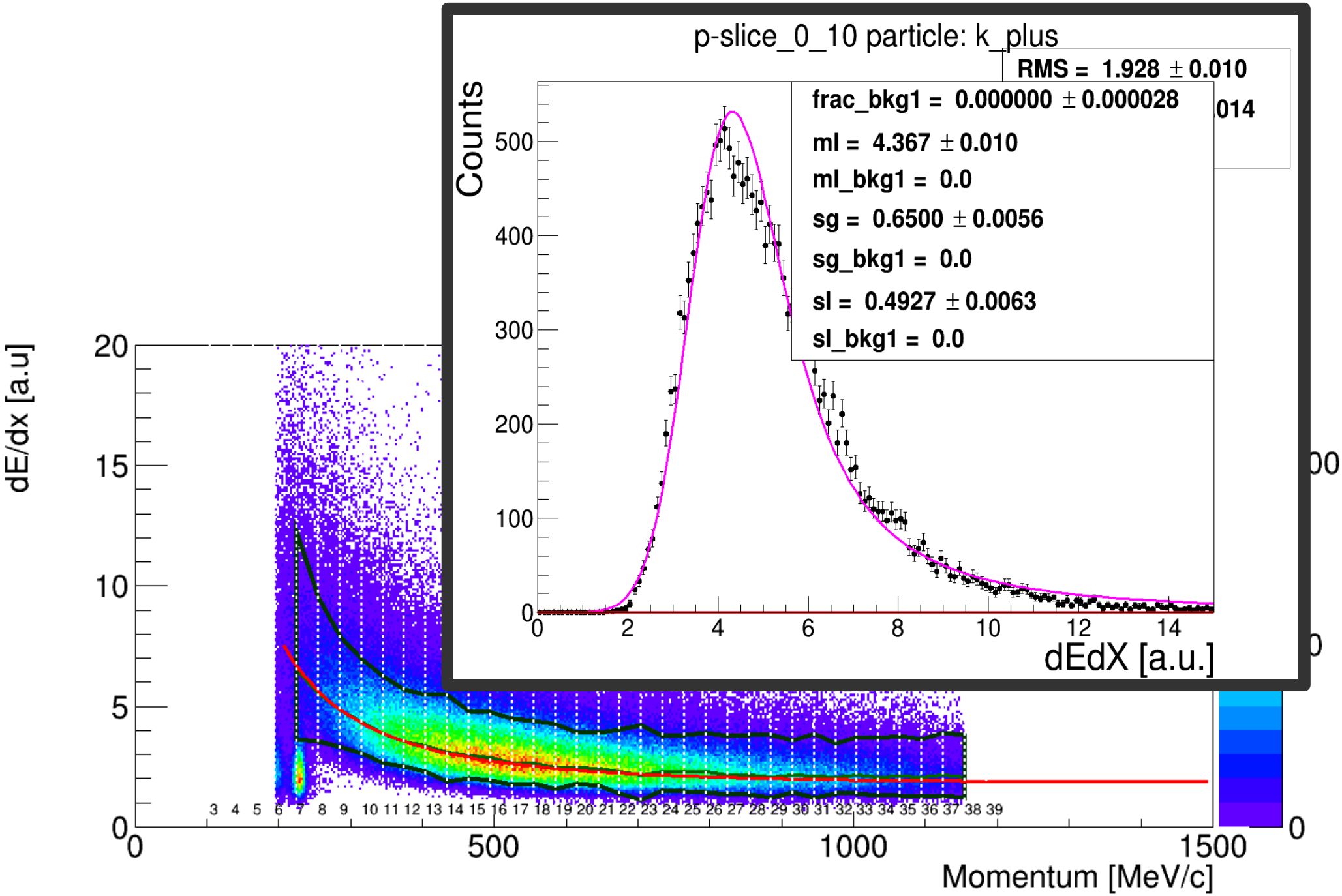
$$+\sigma = 2\sigma$$

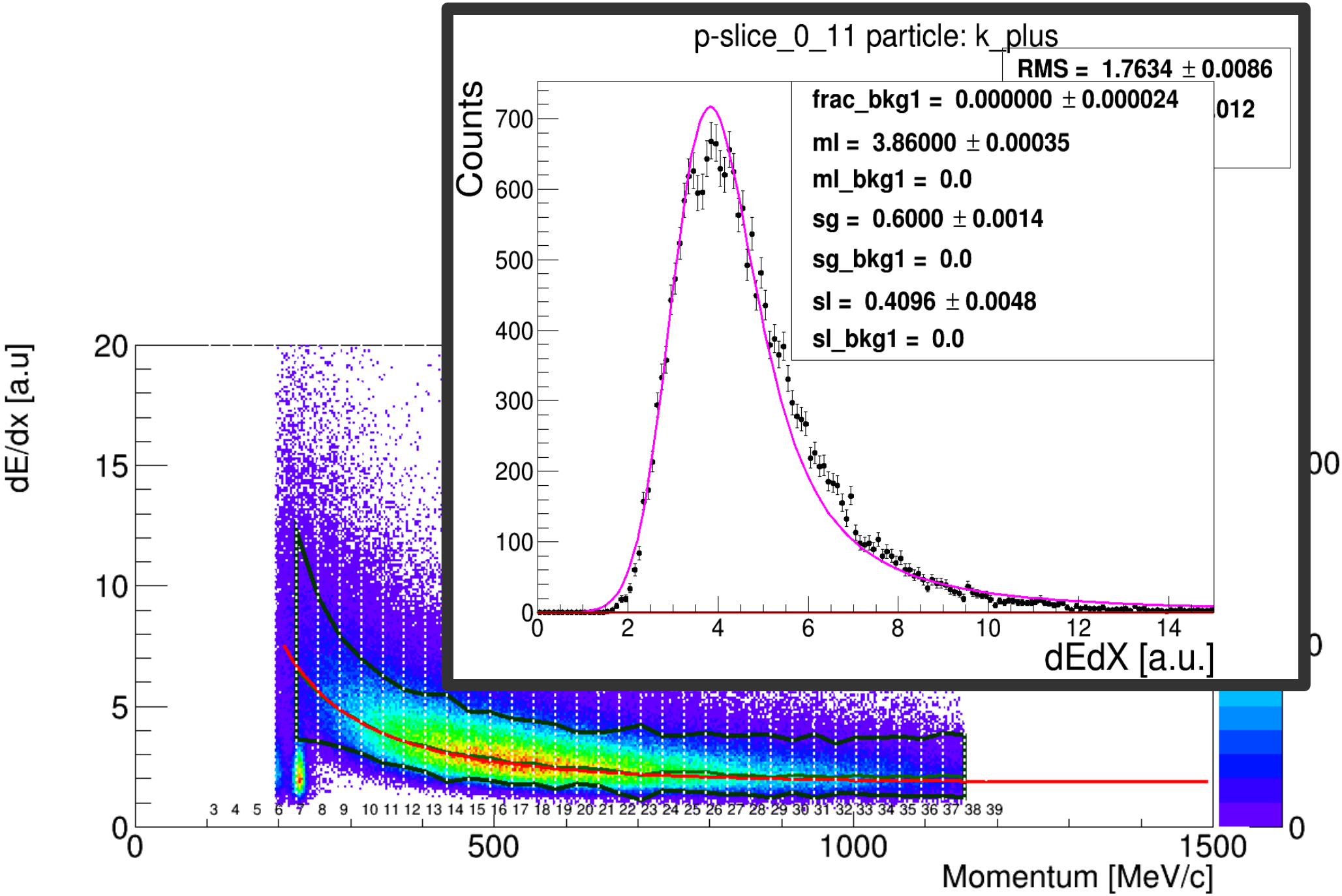
$$-\sigma = \sigma$$

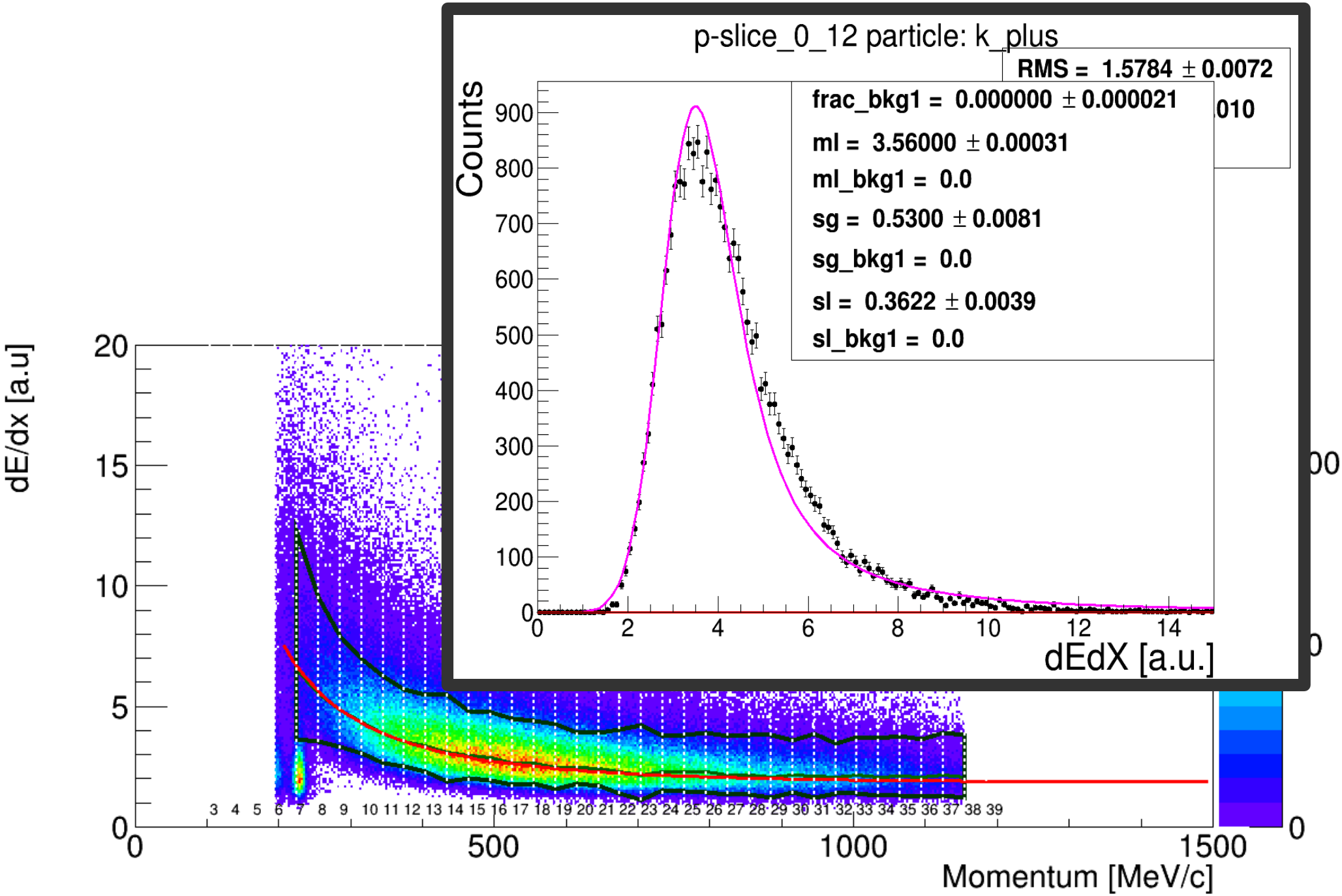

p-slice_0_7 particle: k_plus
RMS = 3.565 ± 0.020
029
frac_bkg1 = 0.5860 ± 0.0049
ml = 6.5000 ± 0.0041
ml_bkg1 = 2.10000 ± 0.00033
sg = 1.425 ± 0.019
sg_bkg1 = 0.3900 ± 0.0012
sl = 0.875 ± 0.026
sl_bkg1 = 0.1521 ± 0.0044
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

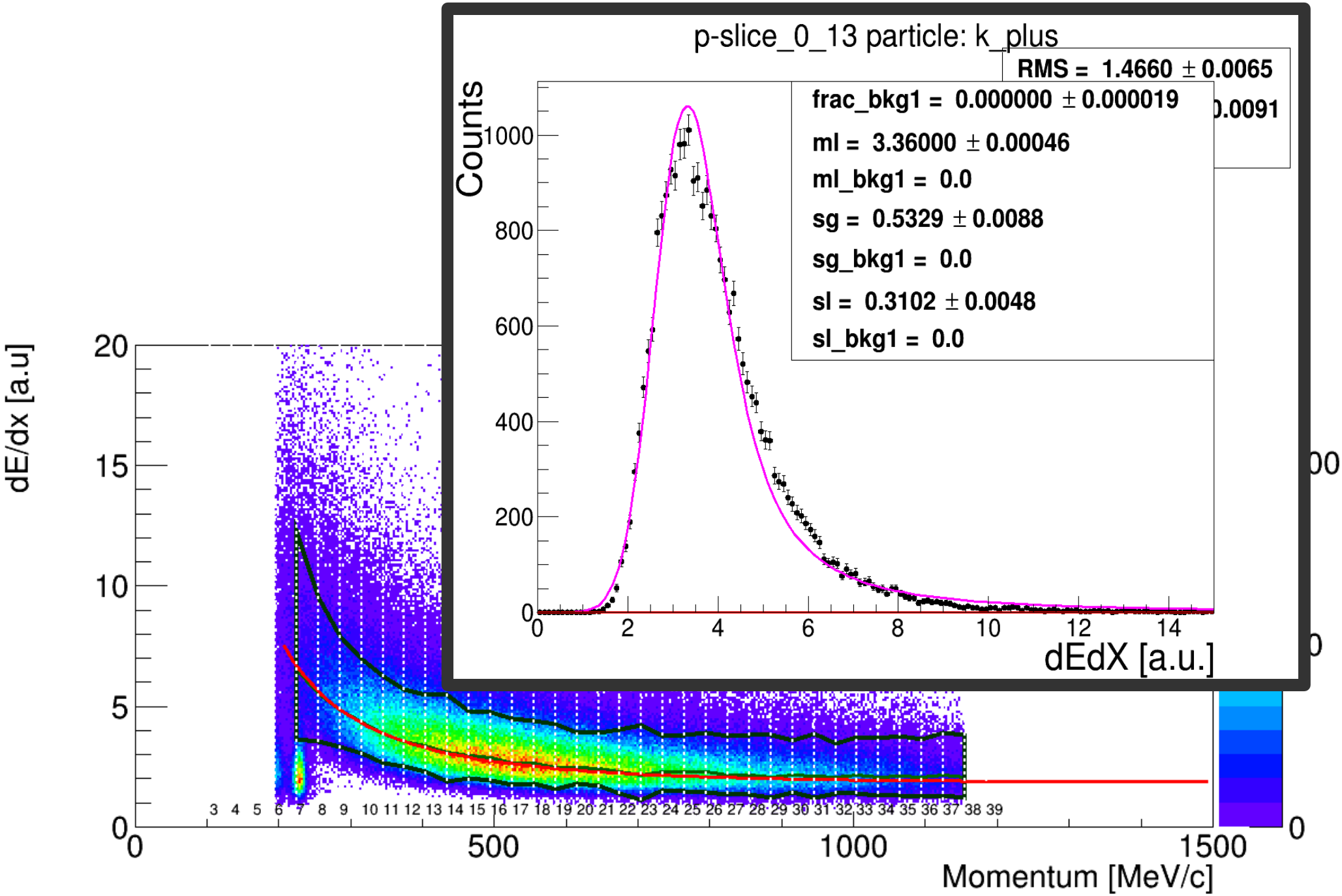

p-slice_0_8 particle: k_plus
RMS = 2.722 ± 0.018
frac_bkg1 = 0.0154 ± 0.0016
ml = 5.539 ± 0.019
ml_bkg1 = 1.938 ± 0.024
sg = 1.0000 ± 0.0071
sg_bkg1 = 0.1 ± 1.7
sl = 0.653 ± 0.012
sl_bkg1 = 0.100 ± 0.060
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

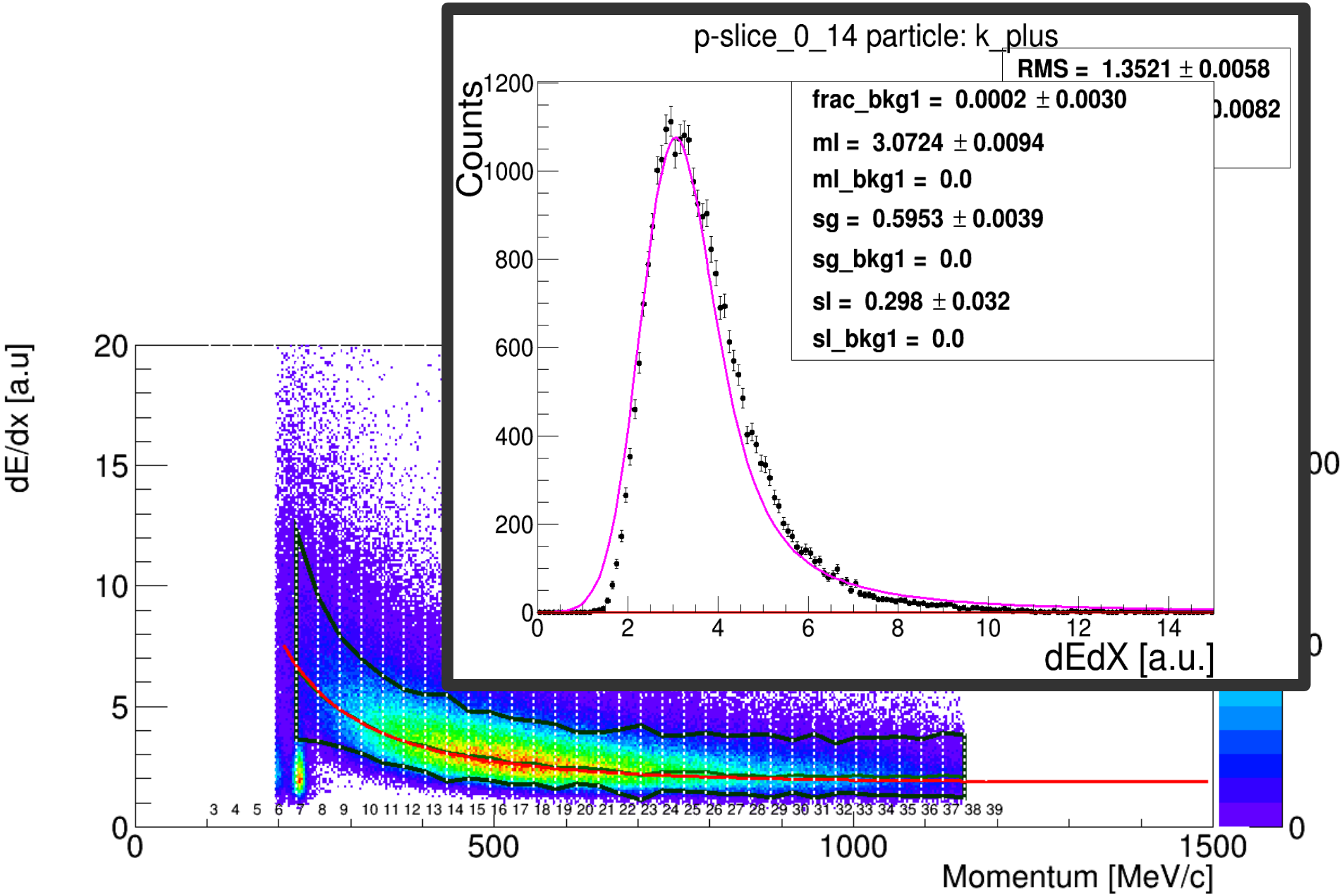

p-slice_0_9 particle: k_plus
RMS = 2.371 ± 0.014
frac_bkg1 = 0.000000 ± 0.000035
ml = 4.8600 ± 0.0020
ml_bkg1 = 0.0
sg = 0.7650 ± 0.0033
sg_bkg1 = 0.0
sl = 0.5750 ± 0.0014
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

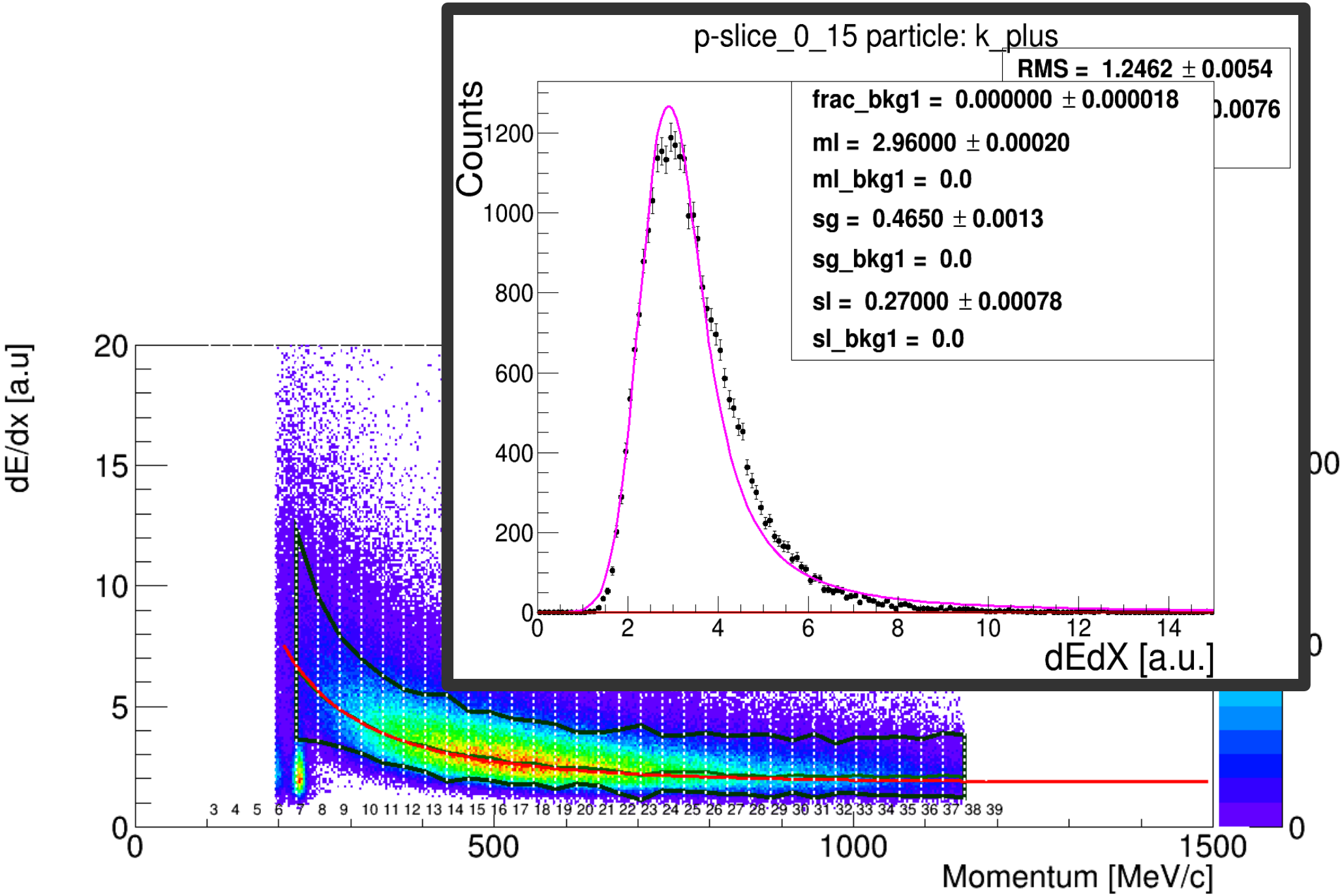

p-slice_0_10 particle: k_plus
RMS = 1.928 ± 0.010
frac_bkg1 = 0.000000 ± 0.000028
ml = 4.367 ± 0.010
ml_bkg1 = 0.0
sg = 0.6500 ± 0.0056
sg_bkg1 = 0.0
sl = 0.4927 ± 0.0063
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

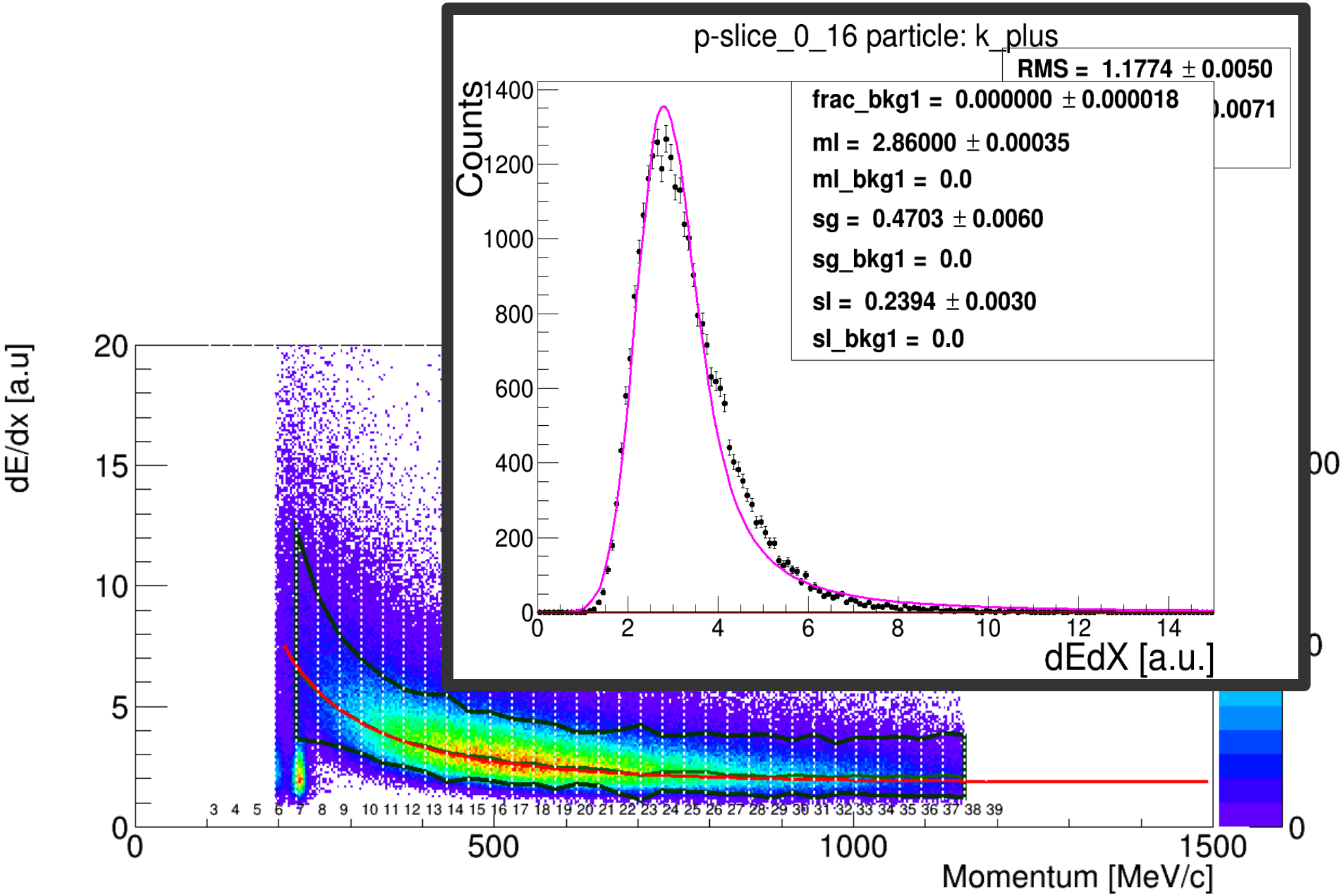

p-slice_0_11 particle: k_plus
RMS = 1.7634 ± 0.0086
frac_bkg1 = 0.000000 ± 0.000024
ml = 3.86000 ± 0.00035
ml_bkg1 = 0.0
sg = 0.6000 ± 0.0014
sg_bkg1 = 0.0
sl = 0.4096 ± 0.0048
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

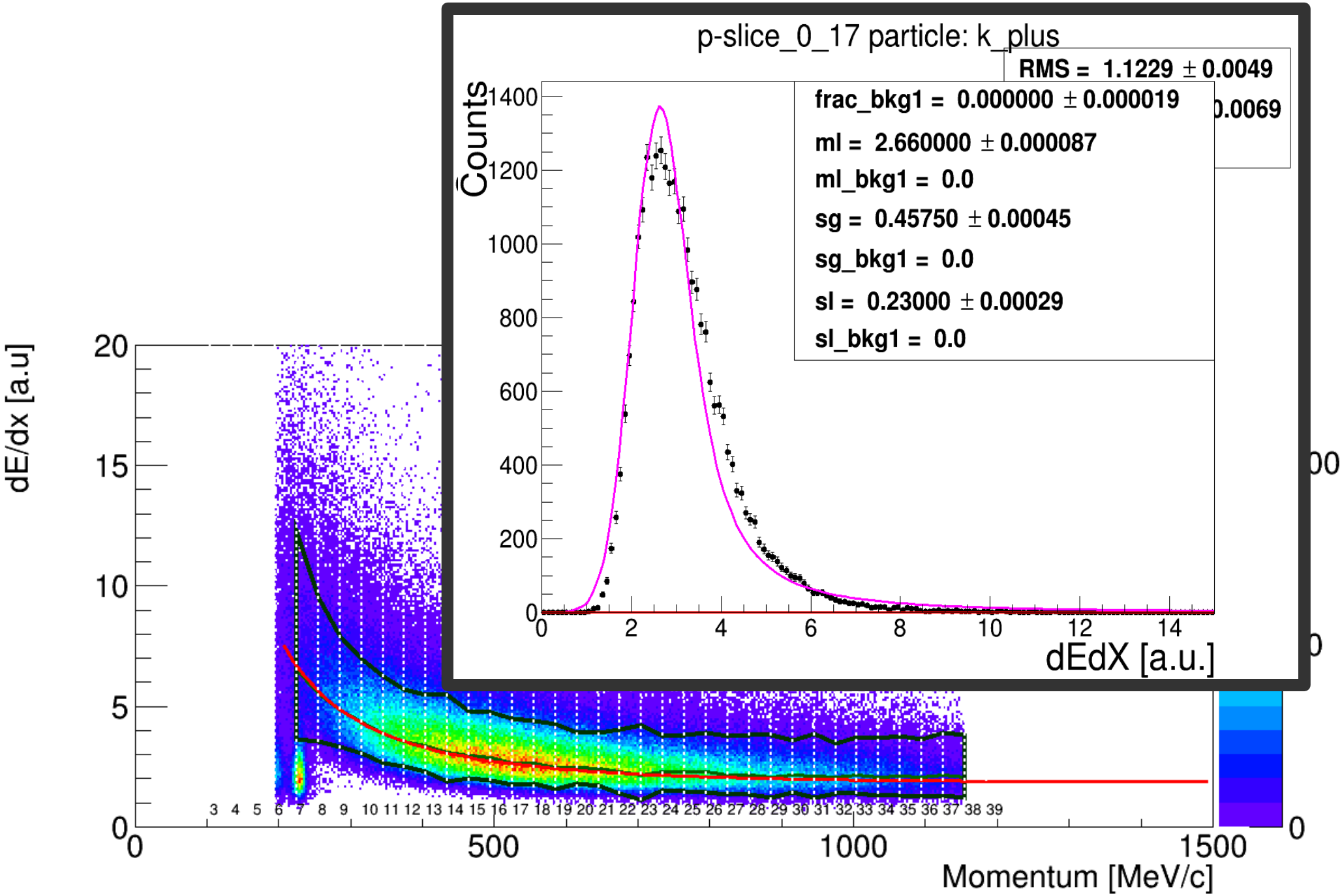

p-slice_0_12 particle: k_plus
RMS = 1.5784 ± 0.0072
frac_bkg1 = 0.000000 ± 0.000021
ml = 3.56000 ± 0.00031
ml_bkg1 = 0.0
sg = 0.5300 ± 0.0081
sg_bkg1 = 0.0
sl = 0.3622 ± 0.0039
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

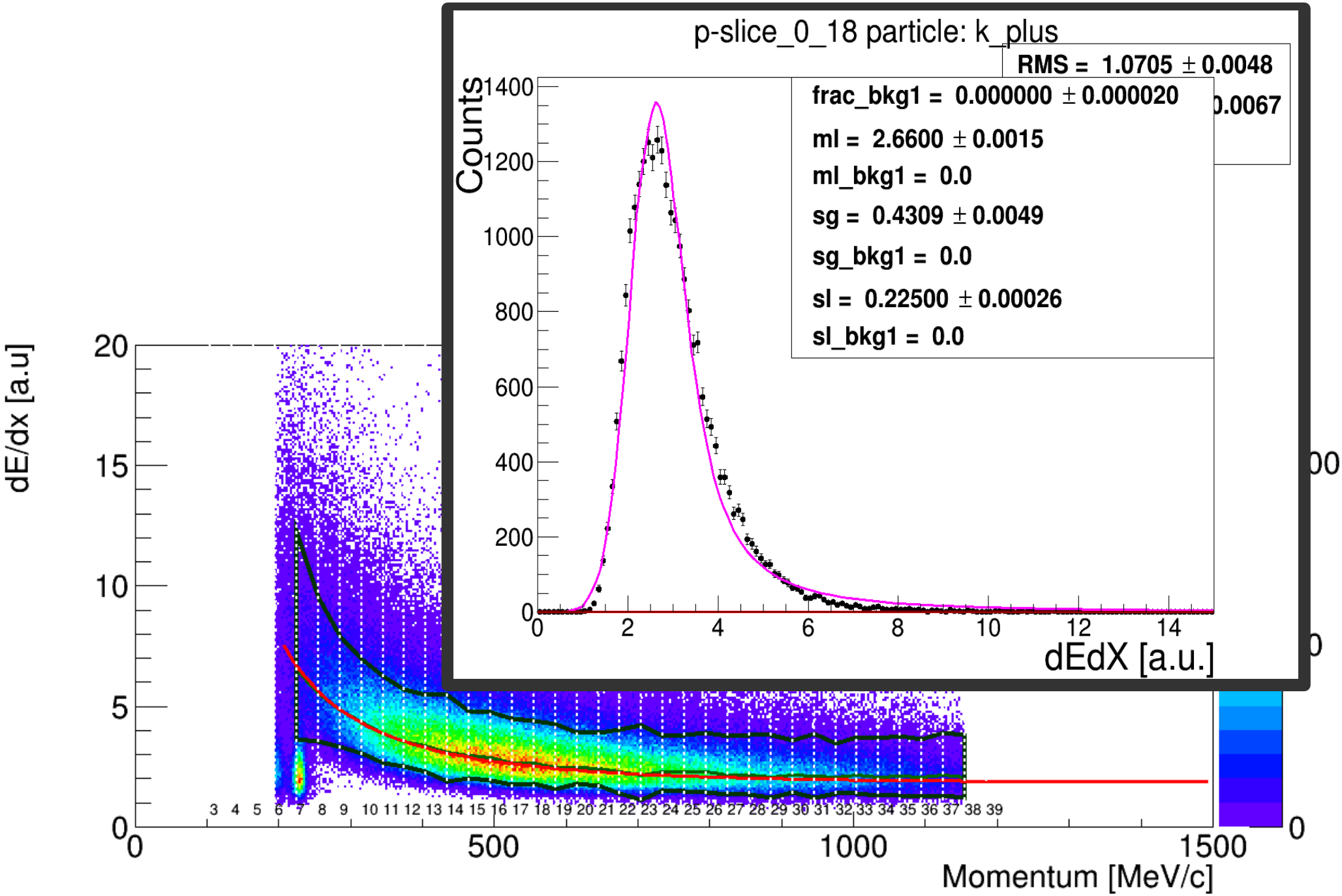

p-slice_0_13 particle: k_plus
RMS = 1.4660 ± 0.0065
0.0091
frac_bkg1 = 0.000000 ± 0.000019
ml = 3.36000 ± 0.00046
ml_bkg1 = 0.0
sg = 0.5329 ± 0.0088
sg_bkg1 = 0.0
sl = 0.3102 ± 0.0048
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

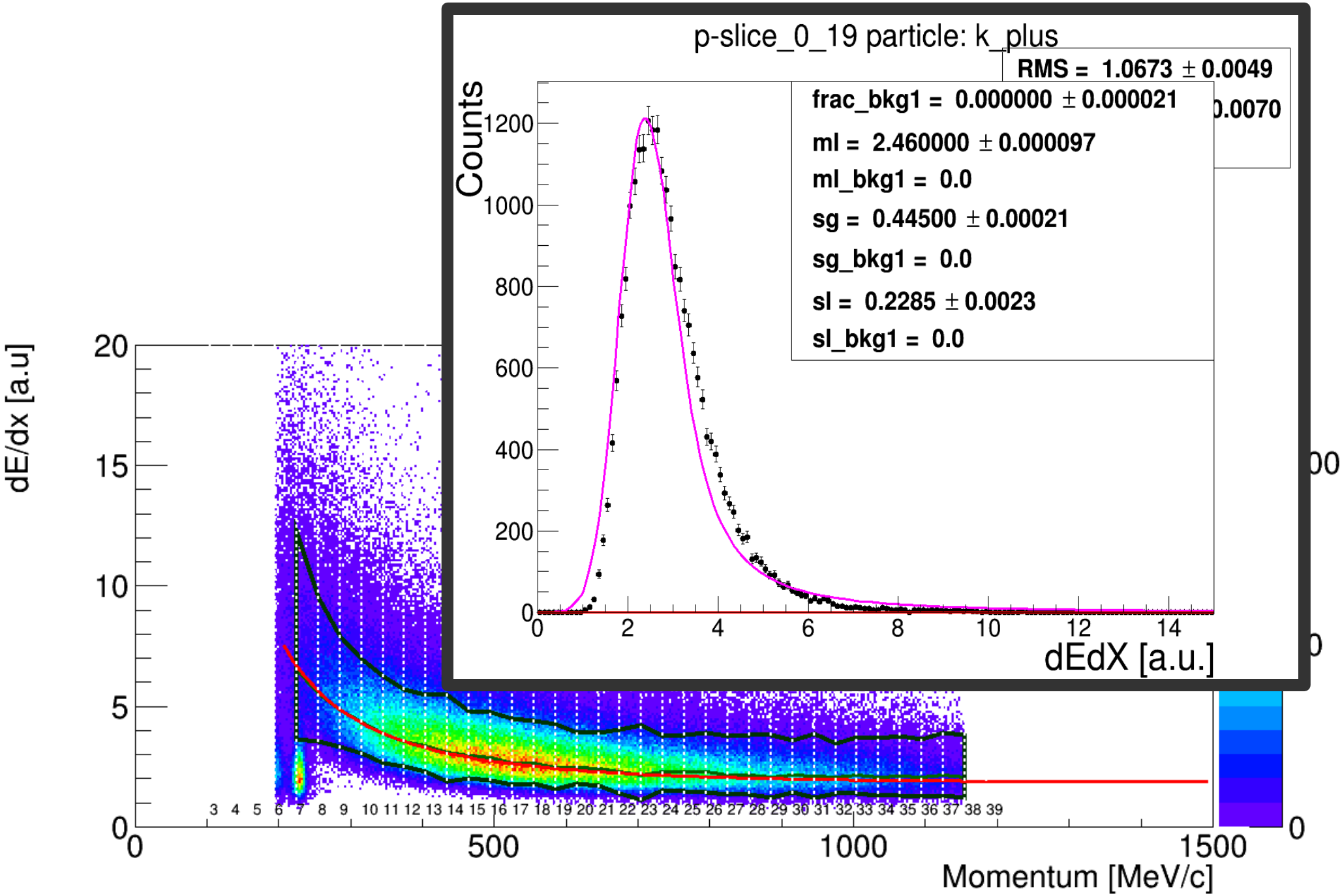

p-slice_0_14 particle: k_plus
RMS = 1.3521 ± 0.0058
0.0082
frac_bkg1 = 0.0002 ± 0.0030
ml = 3.0724 ± 0.0094
ml_bkg1 = 0.0
sg = 0.5953 ± 0.0039
sg_bkg1 = 0.0
sl = 0.298 ± 0.032
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

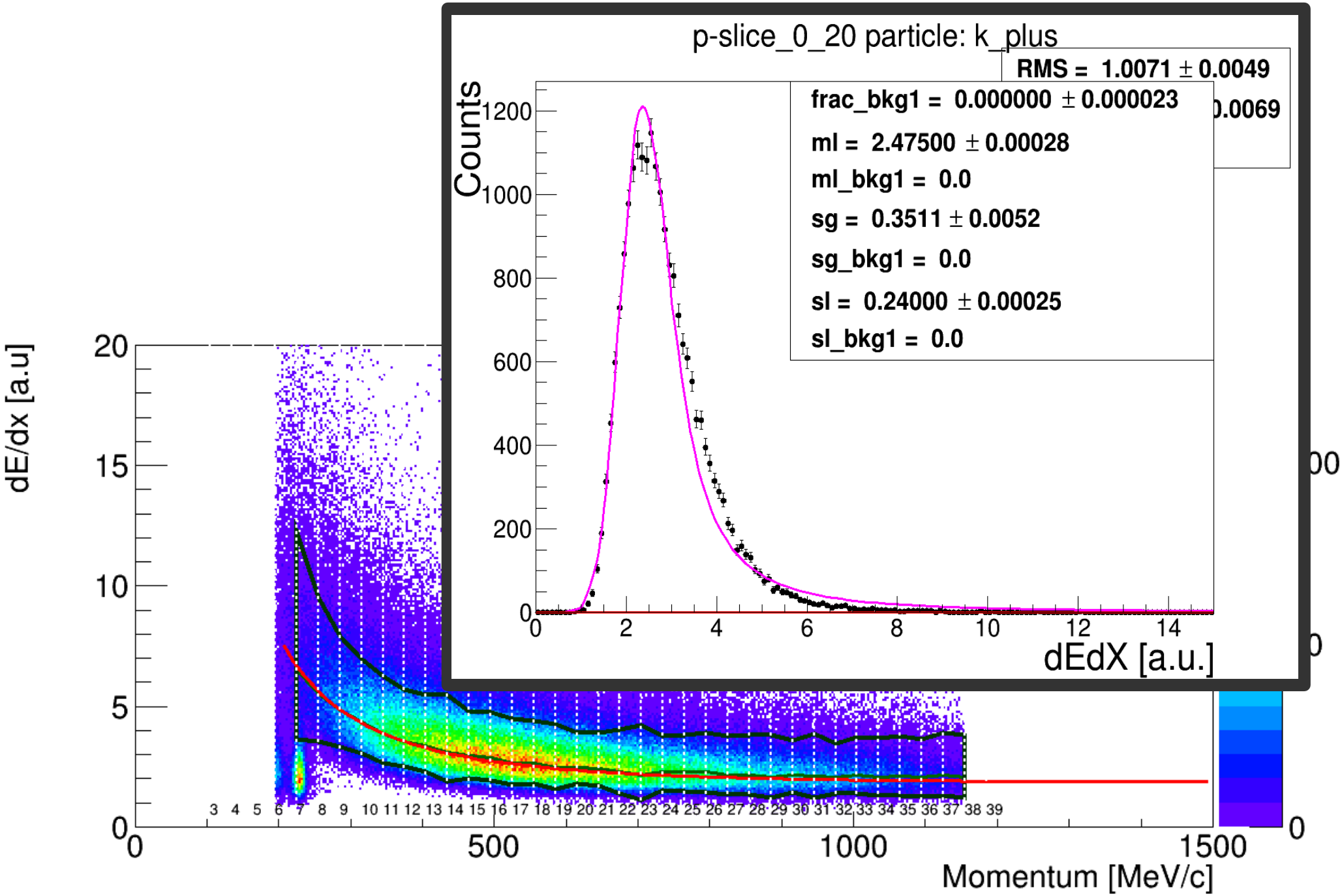

p-slice_0_15 particle: k_plus
RMS = 1.2462 ± 0.0054
0.0076
frac_bkg1 = 0.000000 ± 0.000018
ml = 2.96000 ± 0.00020
ml_bkg1 = 0.0
sg = 0.4650 ± 0.0013
sg_bkg1 = 0.0
sl = 0.27000 ± 0.00078
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

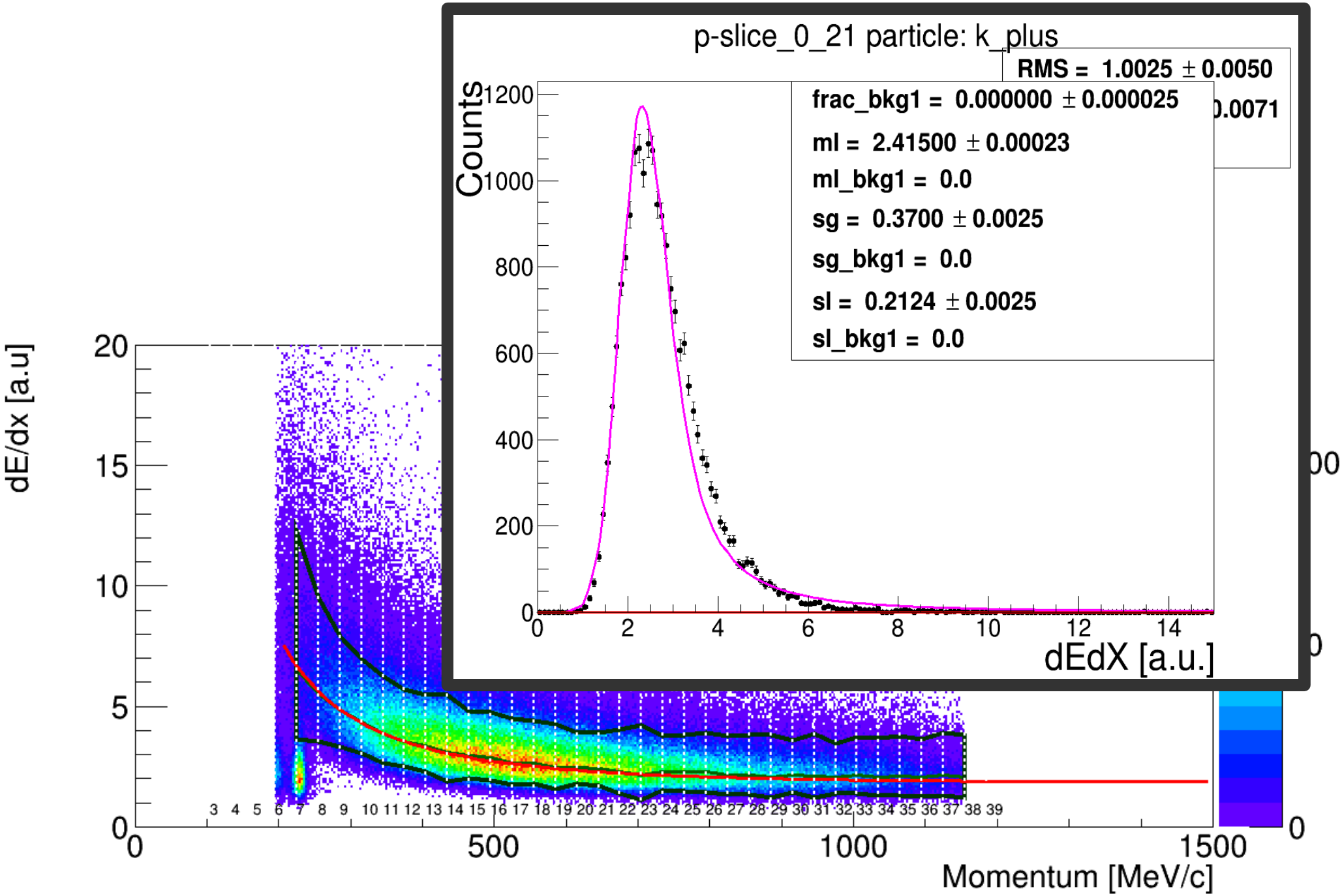

p-slice_0_16 particle: k_plus
RMS = 1.1774 ± 0.0050
frac_bkg1 = 0.000000 ± 0.000018
ml = 2.86000 ± 0.00035
ml_bkg1 = 0.0
sg = 0.4703 ± 0.0060
sg_bkg1 = 0.0
sl = 0.2394 ± 0.0030
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

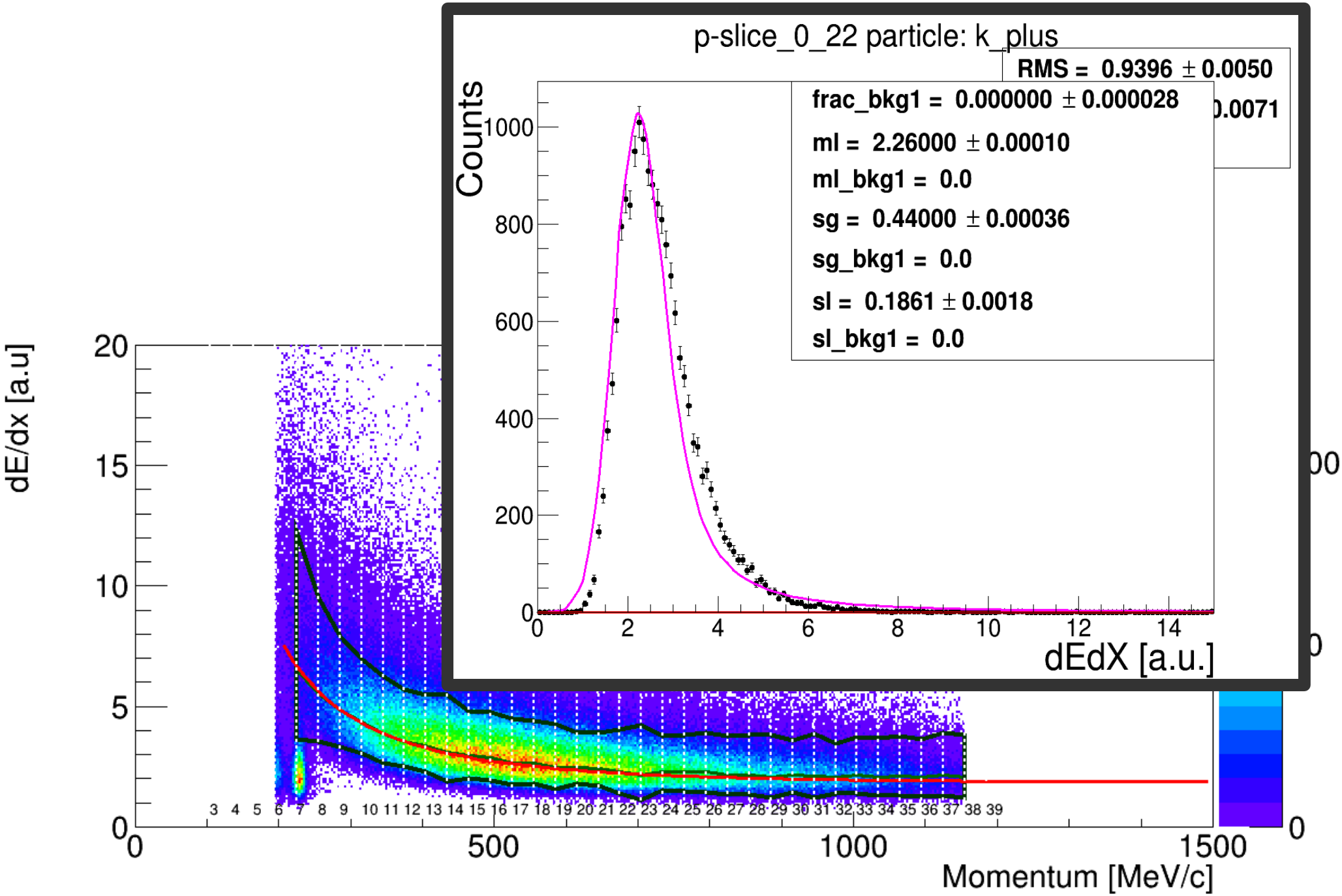

p-slice_0_17 particle: k_plus
RMS = 1.1229 ± 0.0049
0.0069
frac_bkg1 = 0.000000 ± 0.000019
ml = 2.660000 ± 0.000087
ml_bkg1 = 0.0
sg = 0.45750 ± 0.00045
sg_bkg1 = 0.0
sl = 0.23000 ± 0.00029
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

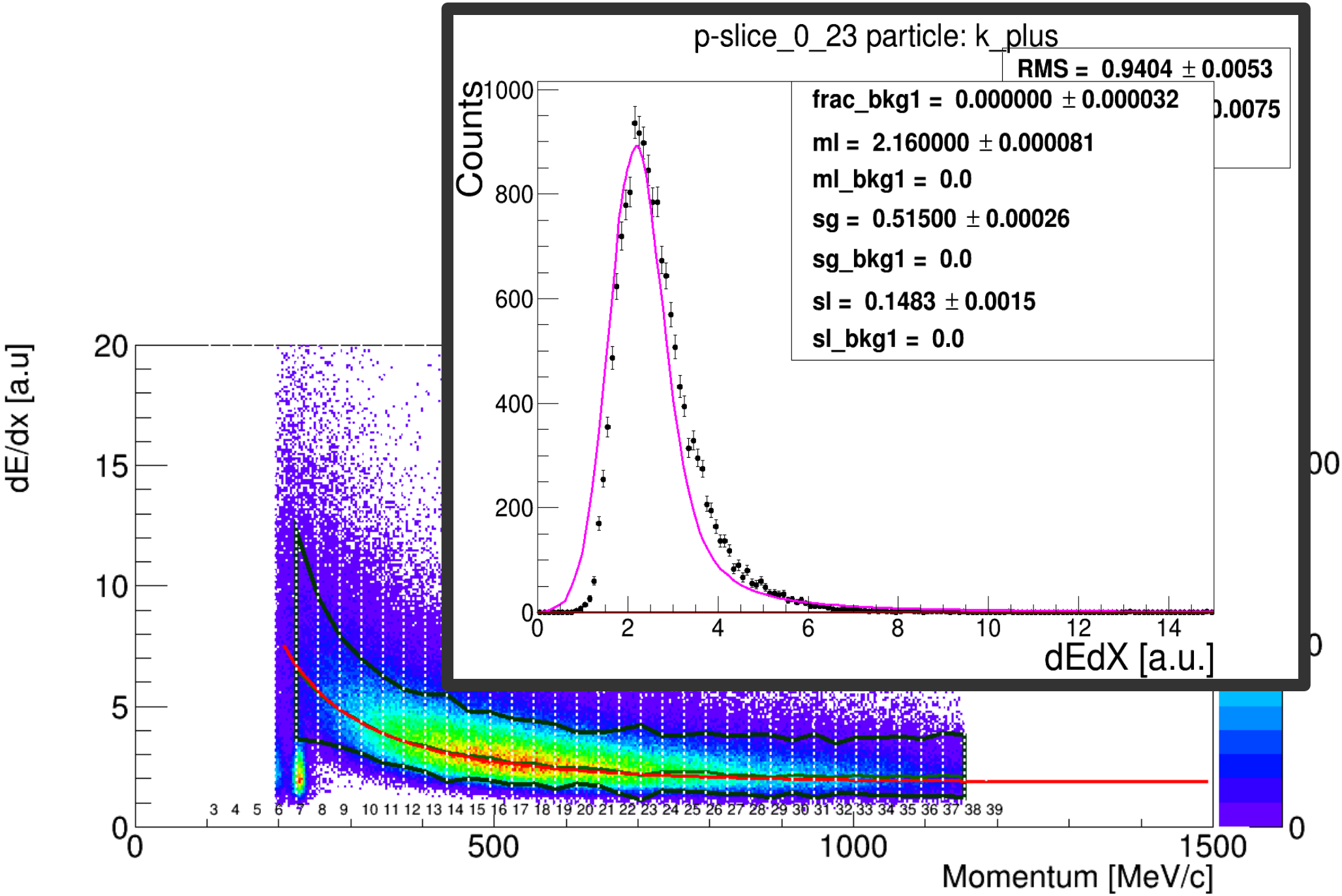

p-slice_0_18 particle: k_plus
RMS = 1.0705 ± 0.0048
0.0067
frac_bkg1 = 0.000000 ± 0.000020
ml = 2.6600 ± 0.0015
ml_bkg1 = 0.0
sg = 0.4309 ± 0.0049
sg_bkg1 = 0.0
sl = 0.22500 ± 0.00026
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

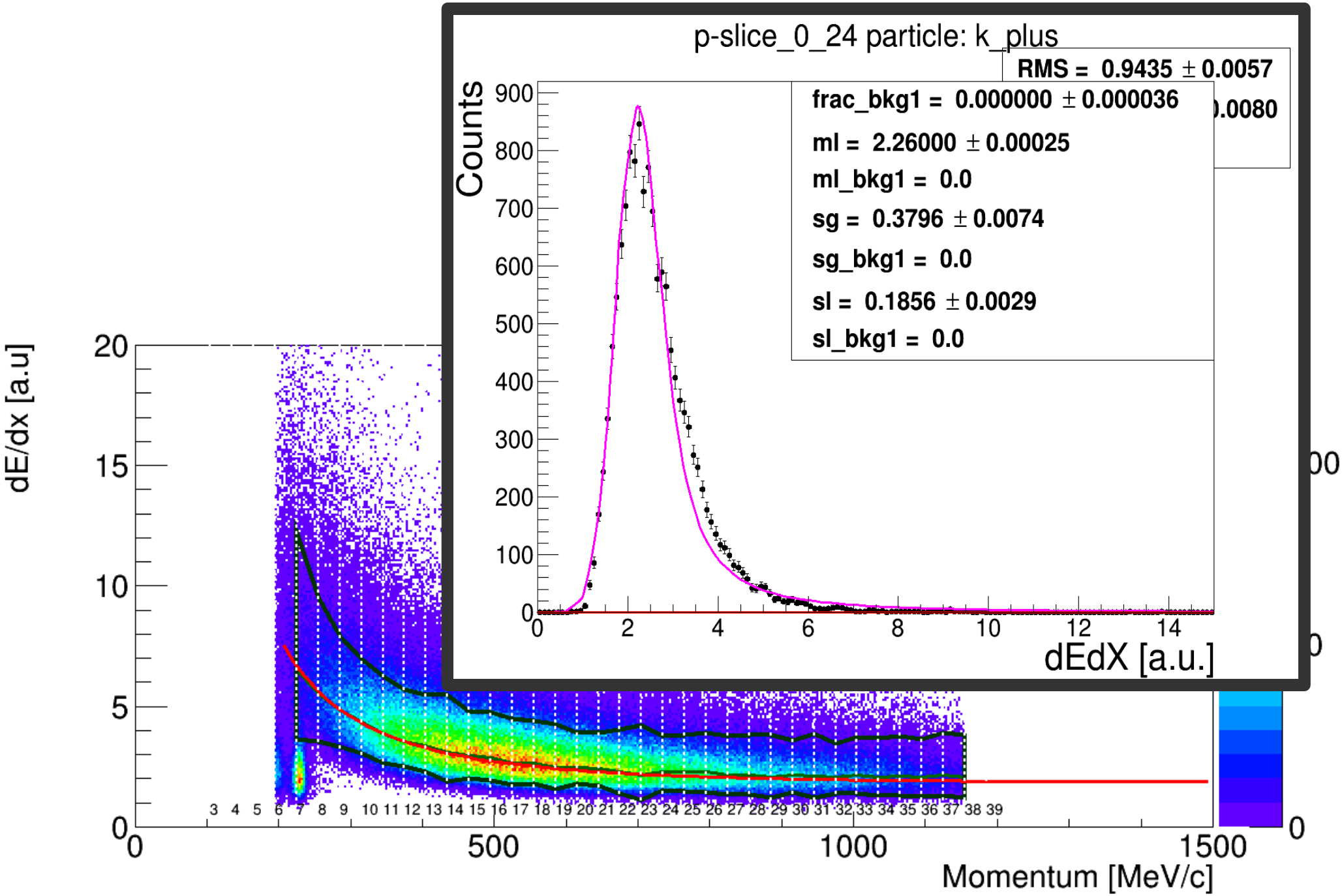

p-slice_0_19 particle: k_plus
RMS = 1.0673 ± 0.0049
0.0070
frac_bkg1 = 0.000000 ± 0.000021
ml = 2.460000 ± 0.000097
ml_bkg1 = 0.0
sg = 0.44500 ± 0.00021
sg_bkg1 = 0.0
sl = 0.2285 ± 0.0023
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

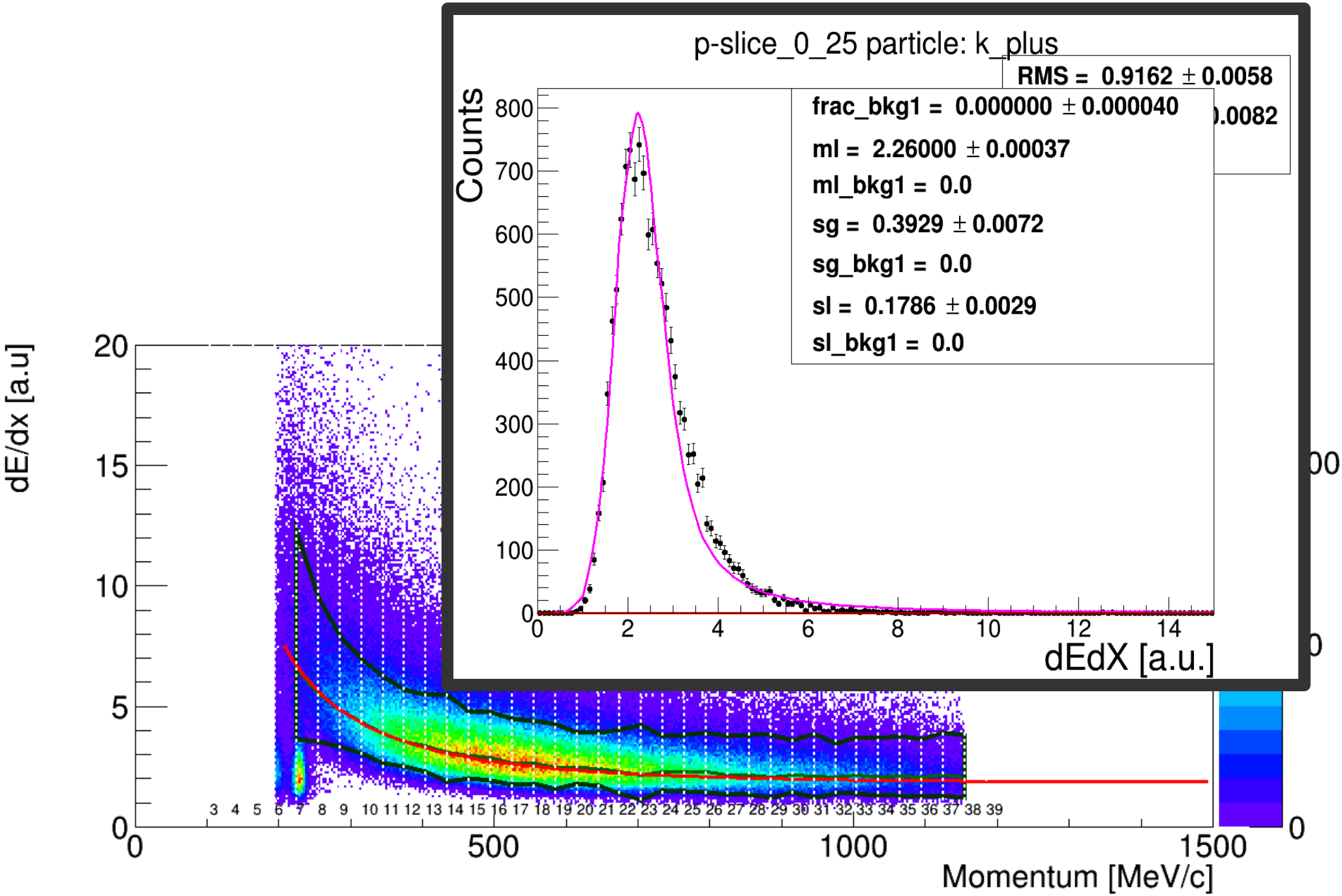

p-slice_0_20 particle: k_plus
RMS = 1.0071 ± 0.0049
0.0069
frac_bkg1 = 0.000000 ± 0.000023
ml = 2.47500 ± 0.00028
ml_bkg1 = 0.0
sg = 0.3511 ± 0.0052
sg_bkg1 = 0.0
sl = 0.24000 ± 0.00025
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

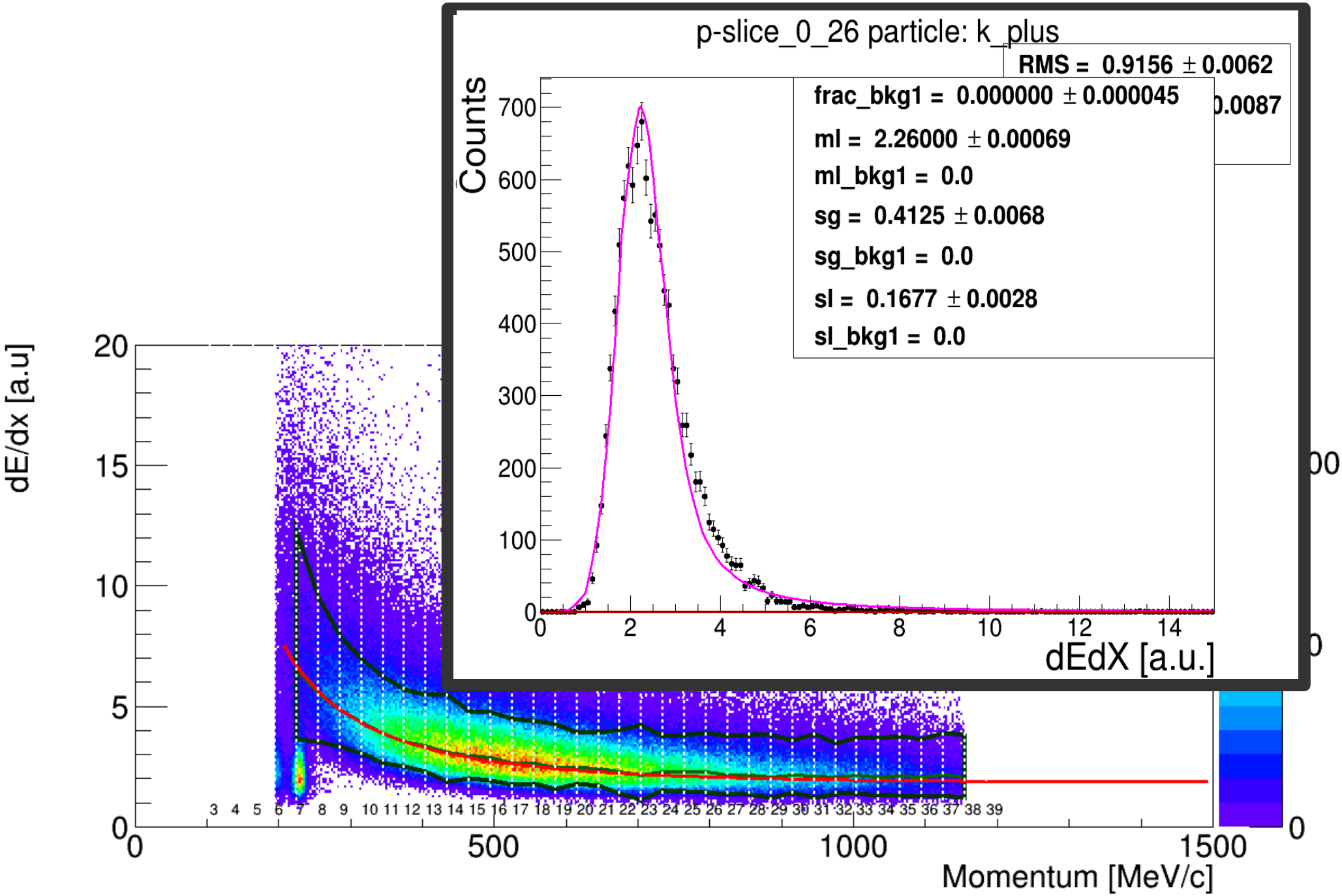

p-slice_0_21 particle: k_plus
RMS = 1.0025 ± 0.0050
0.0071
frac_bkg1 = 0.000000 ± 0.000025
ml = 2.41500 ± 0.00023
ml_bkg1 = 0.0
sg = 0.3700 ± 0.0025
sg_bkg1 = 0.0
sl = 0.2124 ± 0.0025
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

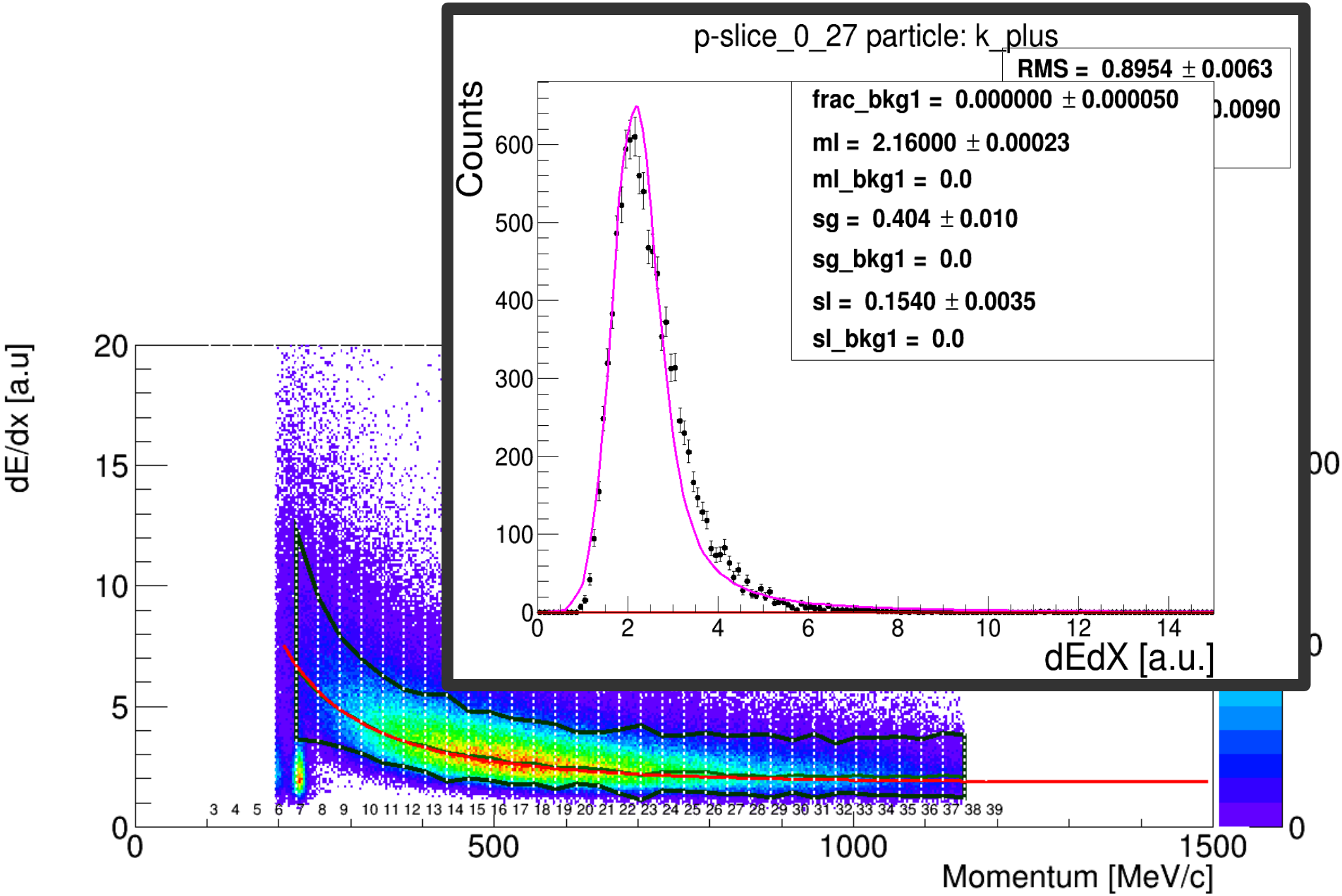

p-slice_0_22 particle: k_plus
RMS = 0.9396 ± 0.0050
0.0071
frac_bkg1 = 0.000000 ± 0.000028
ml = 2.26000 ± 0.00010
ml_bkg1 = 0.0
sg = 0.44000 ± 0.00036
sg_bkg1 = 0.0
sl = 0.1861 ± 0.0018
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

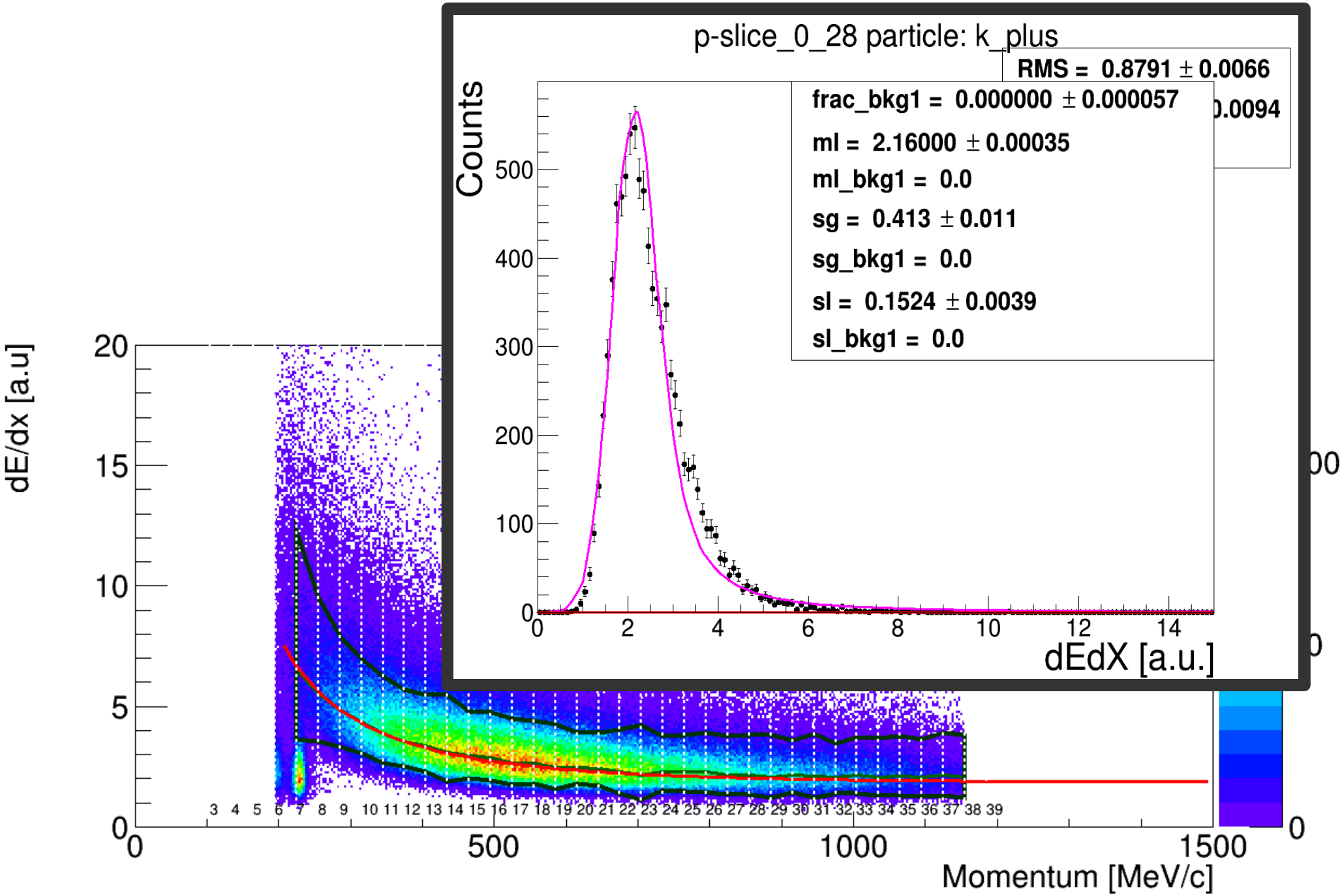

p-slice_0_23 particle: k_plus
RMS = 0.9404 ± 0.0053
0.0075
frac_bkg1 = 0.000000 ± 0.000032
ml = 2.160000 ± 0.000081
ml_bkg1 = 0.0
sg = 0.51500 ± 0.00026
sg_bkg1 = 0.0
sl = 0.1483 ± 0.0015
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

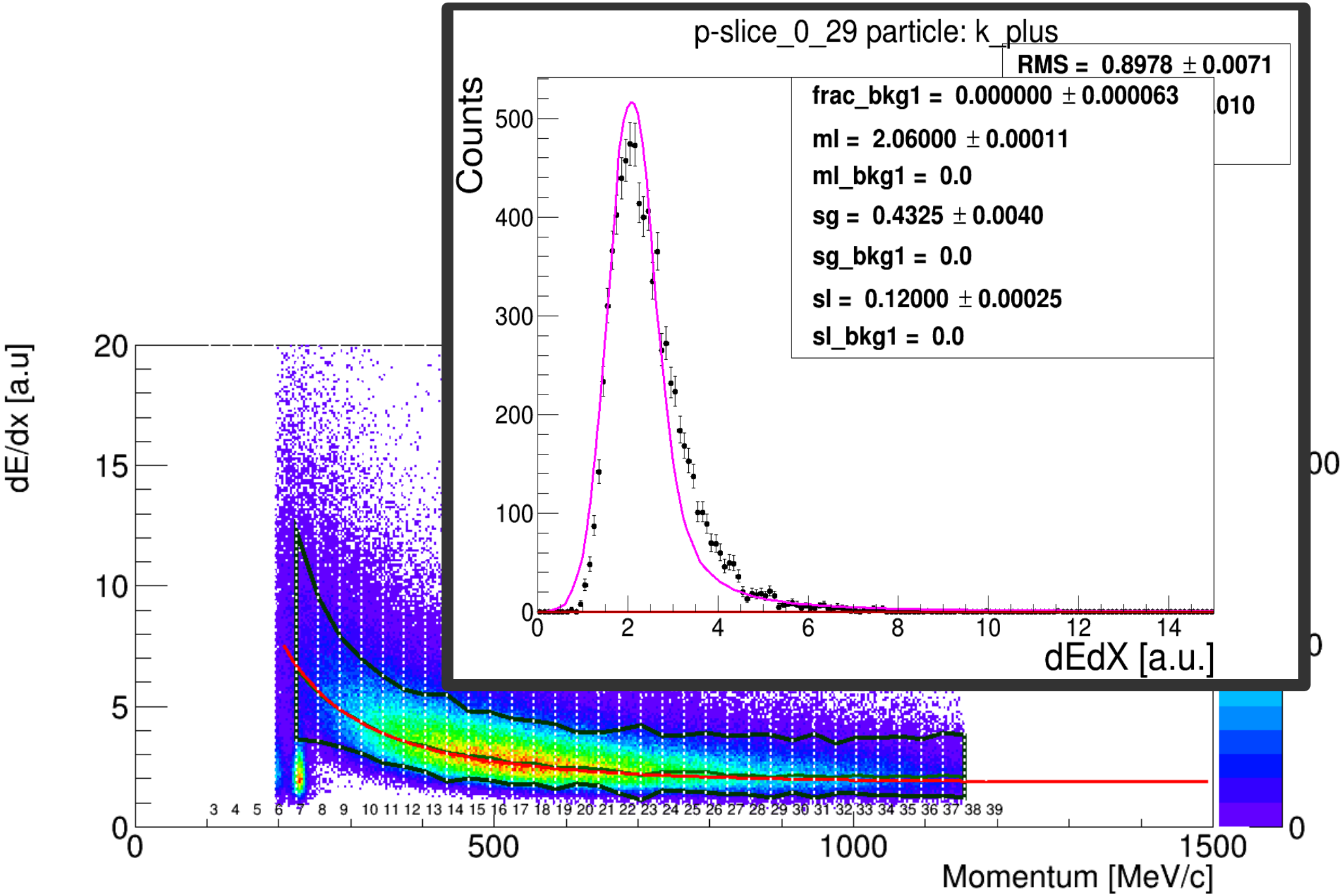

p-slice_0_24 particle: k_plus
RMS = 0.9435 ± 0.0057
frac_bkg1 = 0.000000 ± 0.000036
ml = 2.26000 ± 0.00025
ml_bkg1 = 0.0
sg = 0.3796 ± 0.0074
sg_bkg1 = 0.0
sl = 0.1856 ± 0.0029
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

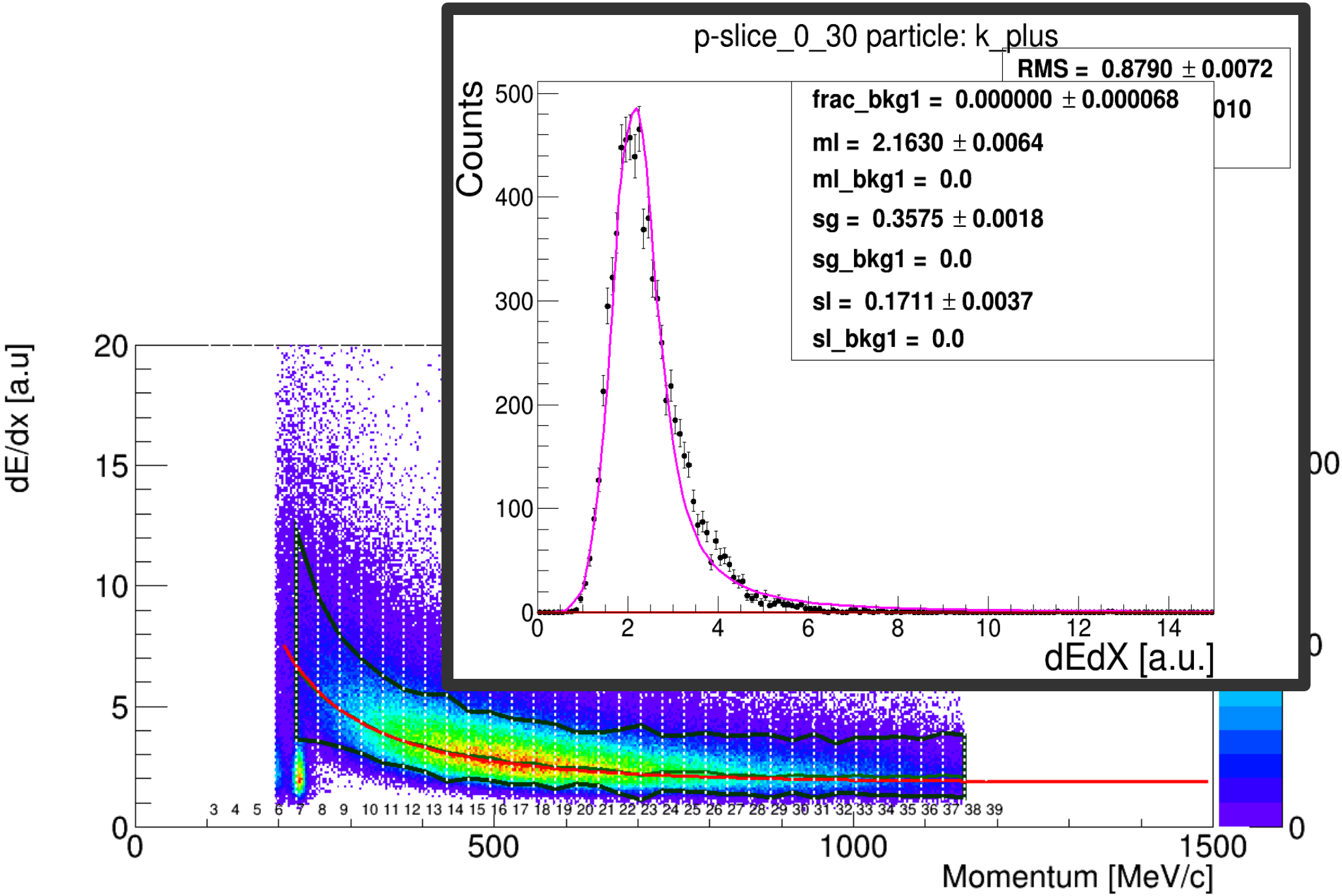

p-slice_0_25 particle: k_plus
RMS = 0.9162 ± 0.0058
.0082
frac_bkg1 = 0.000000 ± 0.000040
ml = 2.26000 ± 0.00037
ml_bkg1 = 0.0
sg = 0.3929 ± 0.0072
sg_bkg1 = 0.0
sl = 0.1786 ± 0.0029
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

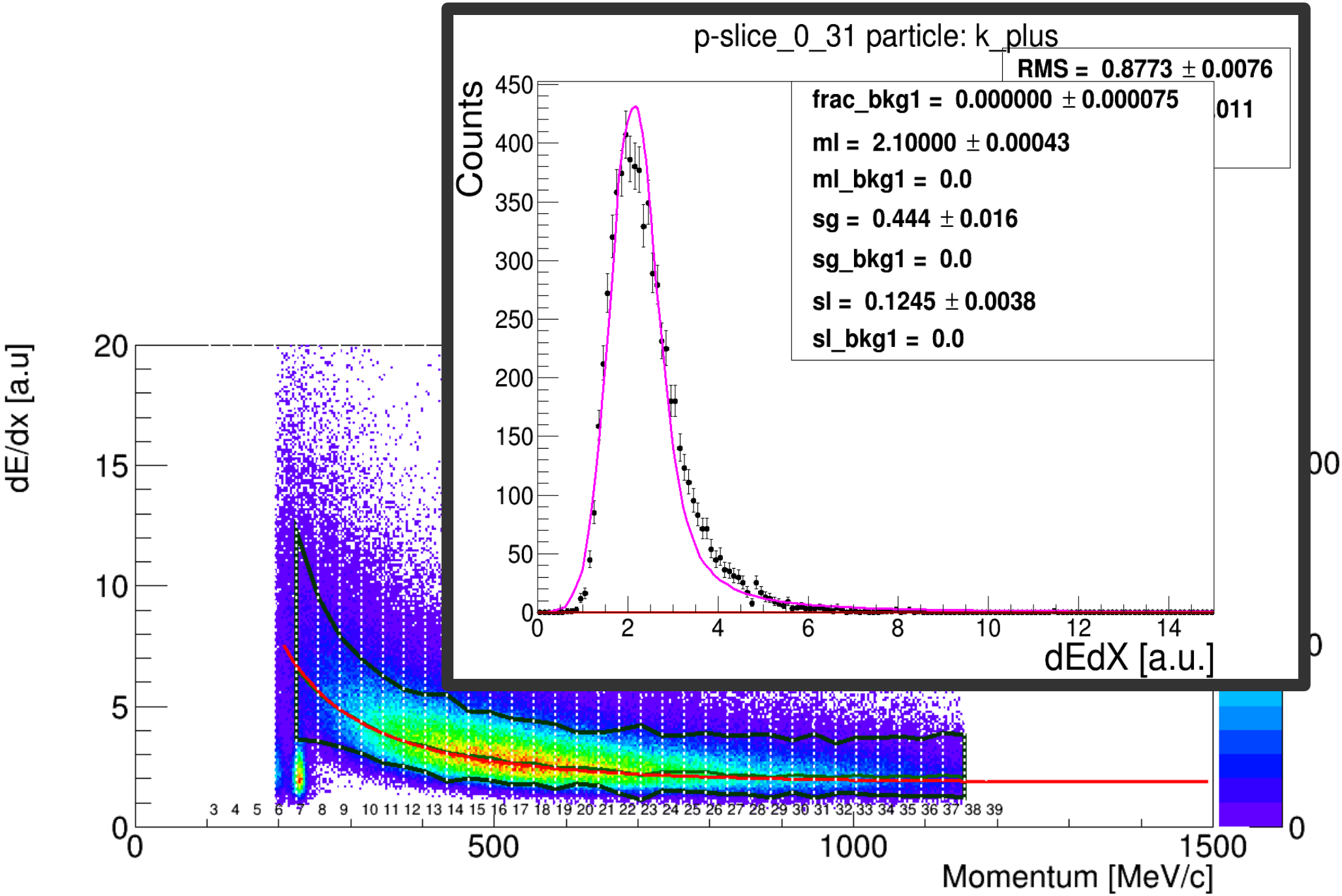

p-slice_0_26 particle: k_plus
RMS = 0.9156 ± 0.0062
0.0087
frac_bkg1 = 0.000000 ± 0.000045
ml = 2.26000 ± 0.00069
ml_bkg1 = 0.0
sg = 0.4125 ± 0.0068
sg_bkg1 = 0.0
sl = 0.1677 ± 0.0028
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

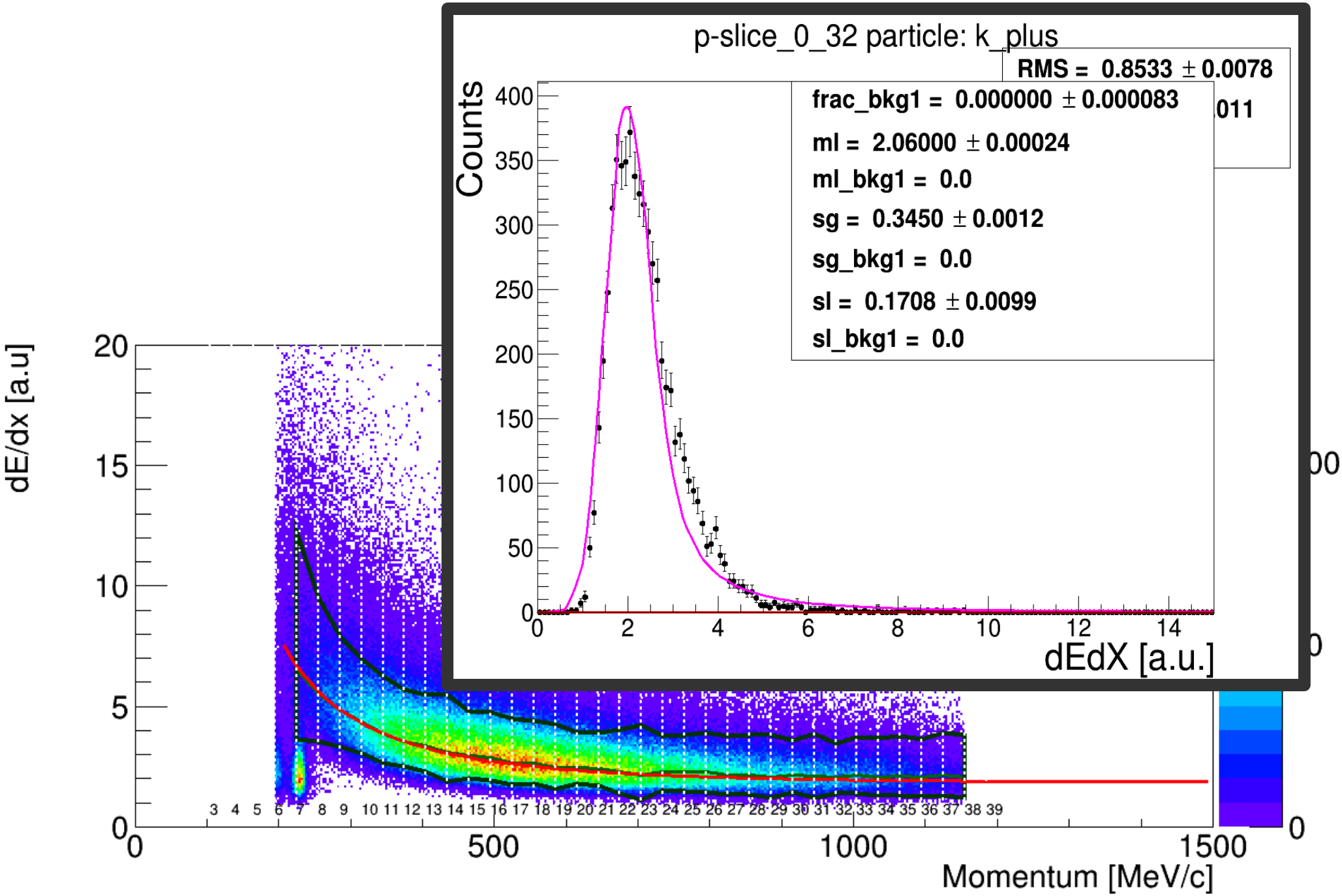

p-slice_0_27 particle: k_plus
RMS = 0.8954 ± 0.0063
0.0090
frac_bkg1 = 0.000000 ± 0.000050
ml = 2.16000 ± 0.00023
ml_bkg1 = 0.0
sg = 0.404 ± 0.010
sg_bkg1 = 0.0
sl = 0.1540 ± 0.0035
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

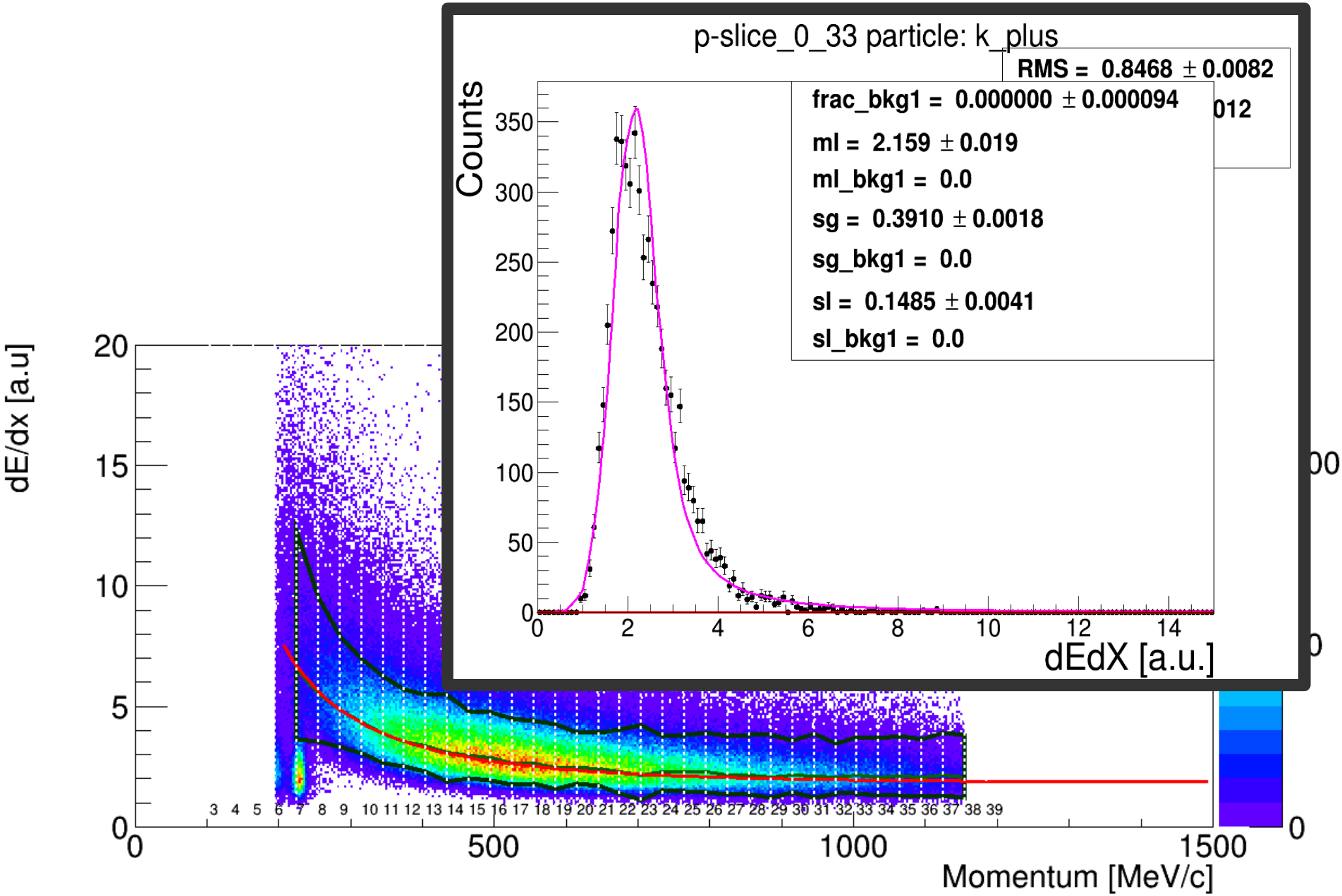

p-slice_0_28 particle: k_plus
RMS = 0.8791 ± 0.0066
0.0094
frac_bkg1 = 0.000000 ± 0.000057
ml = 2.16000 ± 0.00035
ml_bkg1 = 0.0
sg = 0.413 ± 0.011
sg_bkg1 = 0.0
sl = 0.1524 ± 0.0039
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

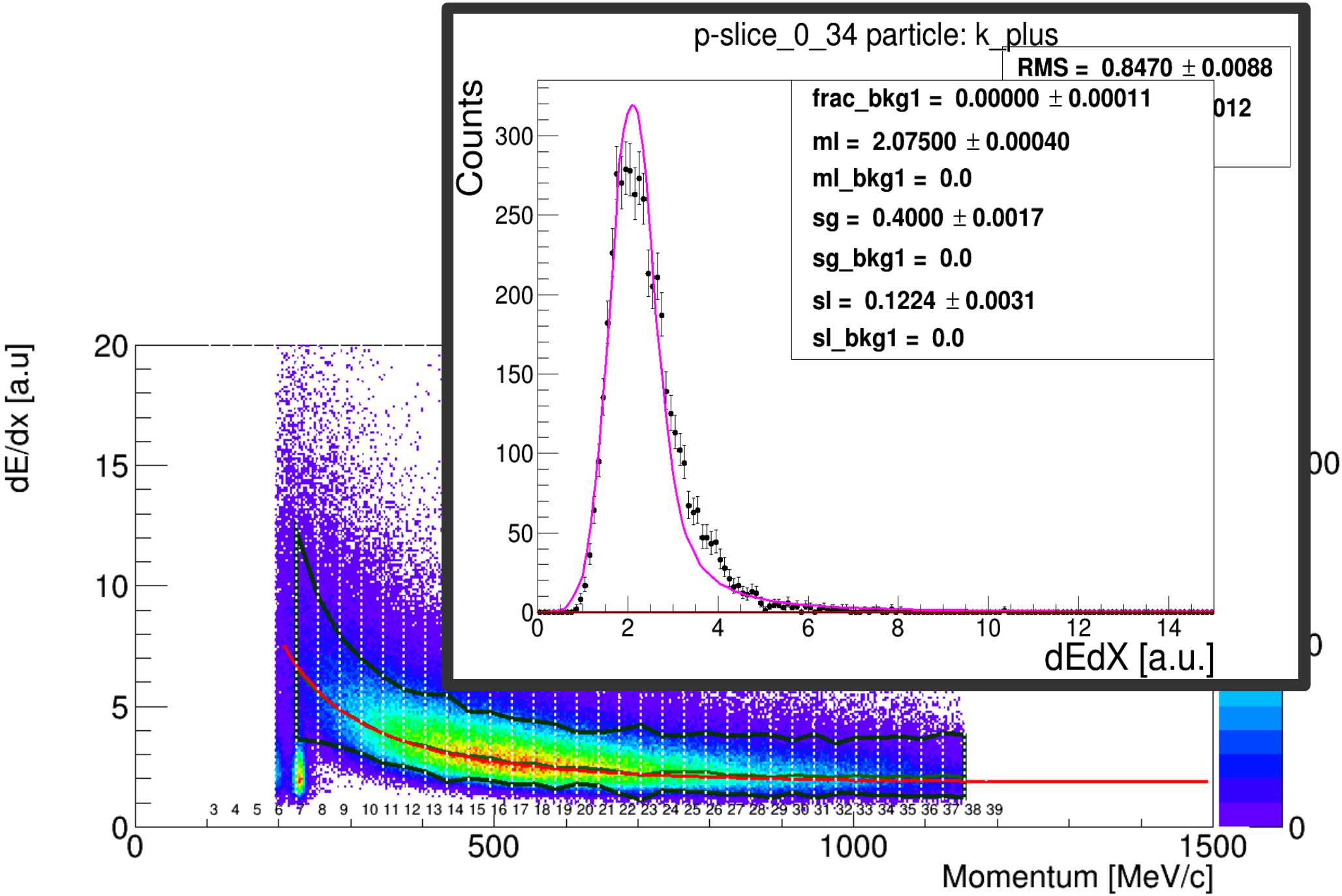

p-slice_0_29 particle: k_plus
RMS = 0.8978 ± 0.0071
frac_bkg1 = 0.000000 ± 0.000063
ml = 2.06000 ± 0.00011
ml_bkg1 = 0.0
sg = 0.4325 ± 0.0040
sg_bkg1 = 0.0
sl = 0.12000 ± 0.00025
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

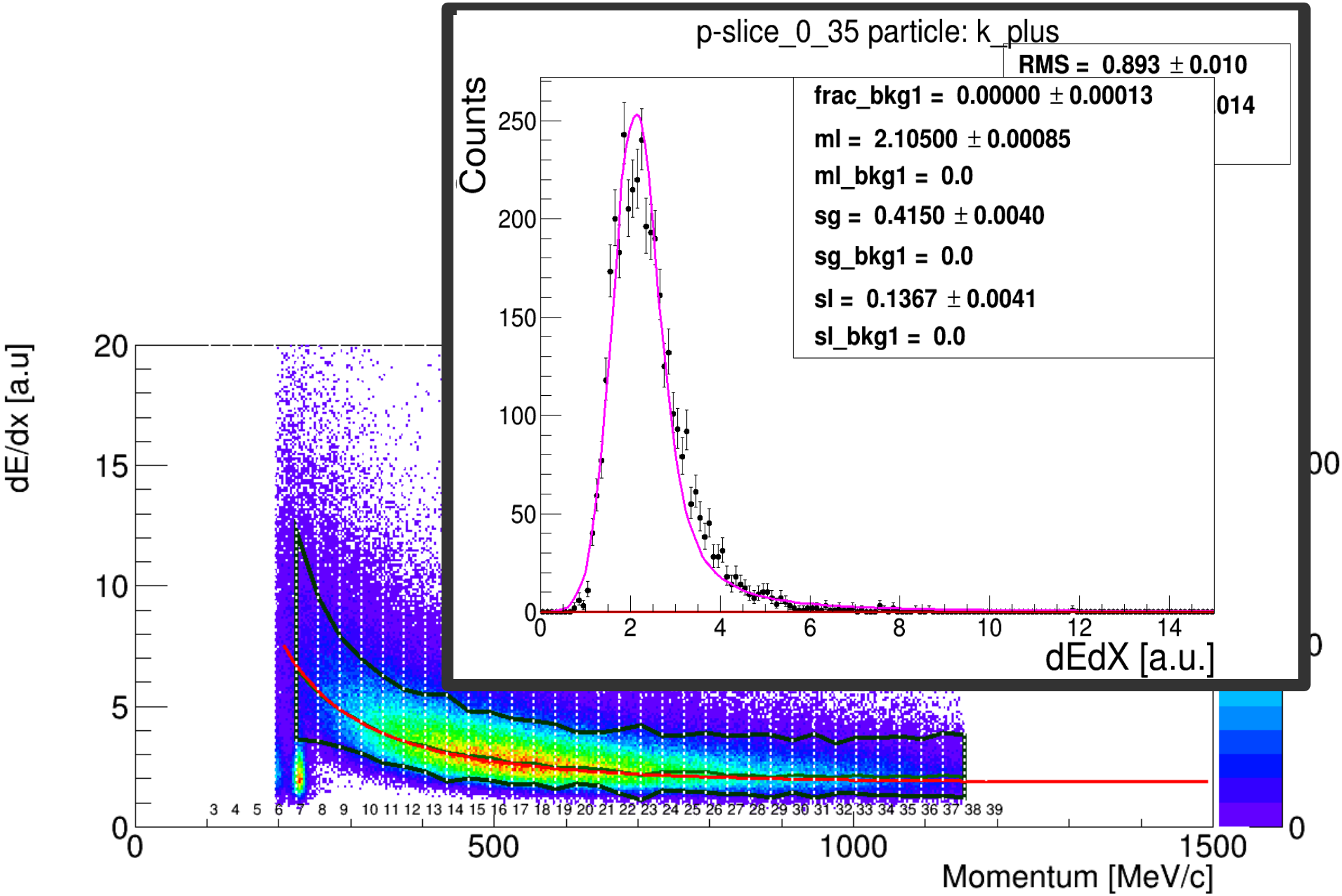

p-slice_0_30 particle: k_plus
RMS = 0.8790 ± 0.0072
frac_bkg1 = 0.000000 ± 0.000068
ml = 2.1630 ± 0.0064
ml_bkg1 = 0.0
sg = 0.3575 ± 0.0018
sg_bkg1 = 0.0
sl = 0.1711 ± 0.0037
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

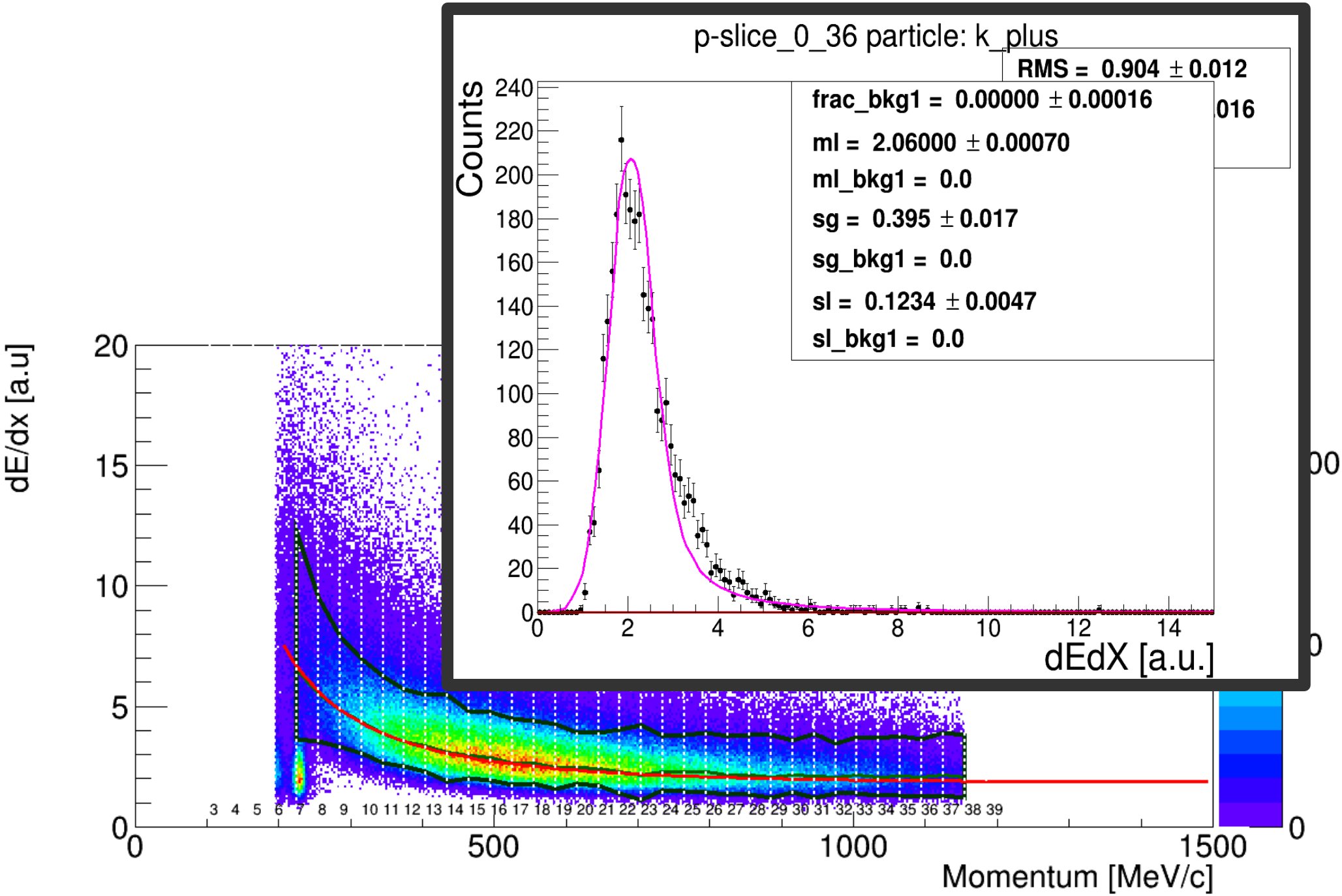

p-slice_0_31 particle: k_plus
RMS = 0.8773 ± 0.0076
frac_bkg1 = 0.000000 ± 0.000075
ml = 2.10000 ± 0.00043
ml_bkg1 = 0.0
sg = 0.444 ± 0.016
sg_bkg1 = 0.0
sl = 0.1245 ± 0.0038
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

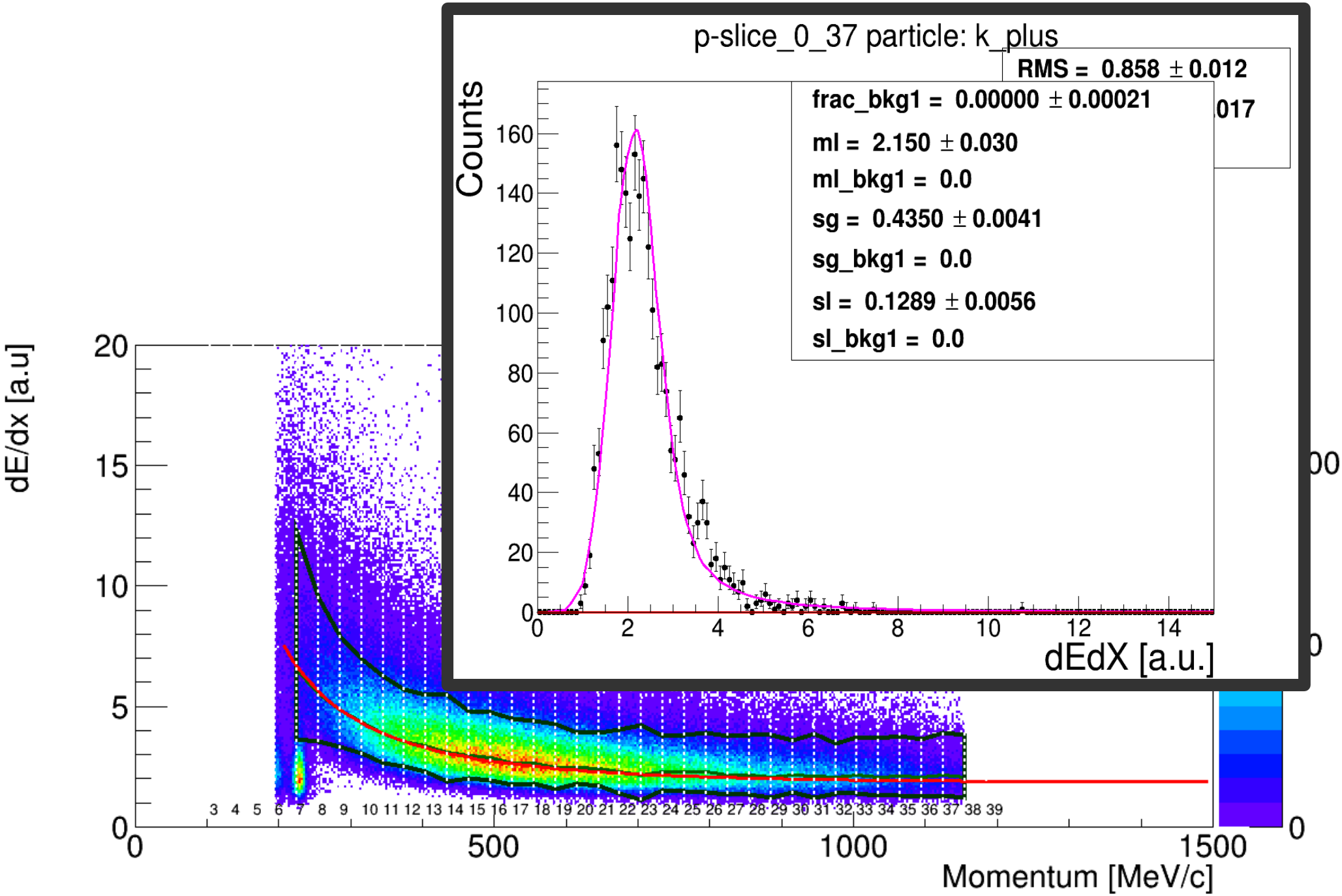

p-slice_0_32 particle: k_plus
RMS = 0.8533 ± 0.0078
frac_bkg1 = 0.000000 ± 0.000083
ml = 2.06000 ± 0.00024
ml_bkg1 = 0.0
sg = 0.3450 ± 0.0012
sg_bkg1 = 0.0
sl = 0.1708 ± 0.0099
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

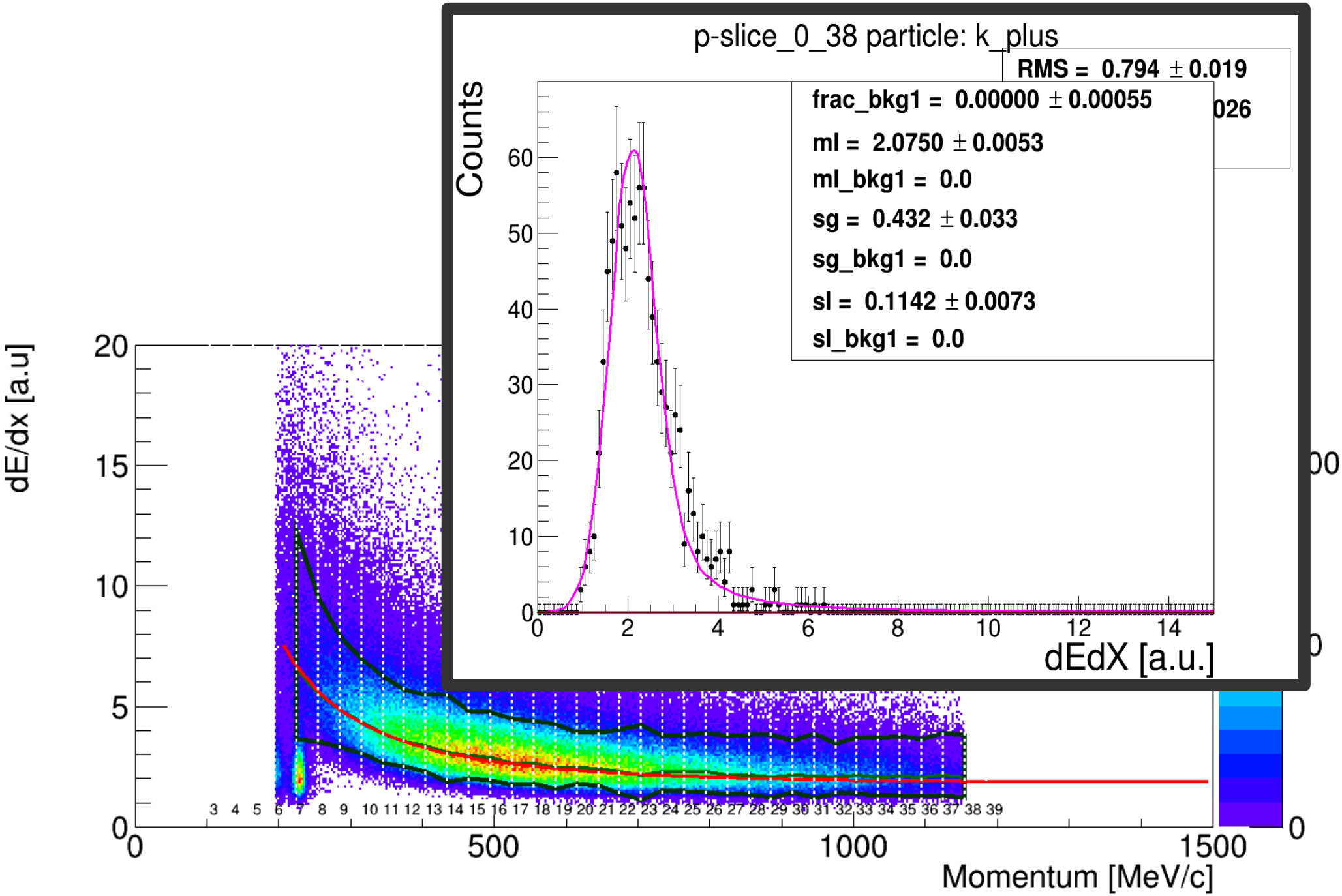

p-slice_0_33 particle: k_plus
RMS = 0.8468 ± 0.0082
frac_bkg1 = 0.000000 ± 0.000094
ml = 2.159 ± 0.019
ml_bkg1 = 0.0
sg = 0.3910 ± 0.0018
sg_bkg1 = 0.0
sl = 0.1485 ± 0.0041
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_0_34 particle: k_plus
RMS = 0.8470 ± 0.0088
frac_bkg1 = 0.00000 ± 0.00011
ml = 2.07500 ± 0.00040
ml_bkg1 = 0.0
sg = 0.4000 ± 0.0017
sg_bkg1 = 0.0
sl = 0.1224 ± 0.0031
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

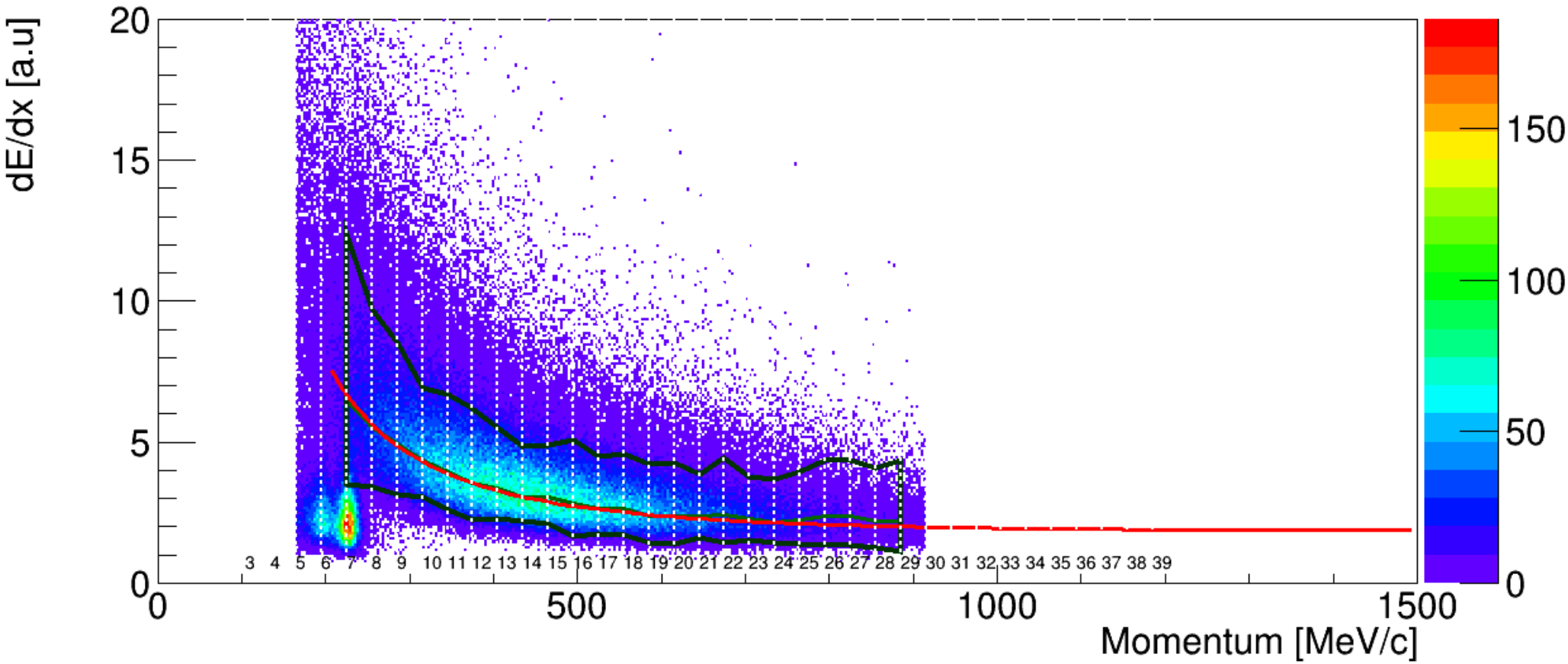

p-slice_0_35 particle: k_plus
RMS = 0.893 ± 0.010
frac_bkg1 = 0.00000 ± 0.00013
ml = 2.10500 ± 0.00085
ml_bkg1 = 0.0
sg = 0.4150 ± 0.0040
sg_bkg1 = 0.0
sl = 0.1367 ± 0.0041
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_0_36 particle: k_plus
RMS = 0.904 ± 0.012
frac_bkg1 = 0.00000 ± 0.00016
ml = 2.06000 ± 0.00070
ml_bkg1 = 0.0
sg = 0.395 ± 0.017
sg_bkg1 = 0.0
sl = 0.1234 ± 0.0047
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_0_37 particle: k_plus
RMS = 0.858 ± 0.012
frac_bkg1 = 0.00000 ± 0.00021
ml = 2.150 ± 0.030
ml_bkg1 = 0.0
sg = 0.4350 ± 0.0041
sg_bkg1 = 0.0
sl = 0.1289 ± 0.0056
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_0_38 particle: k_plus
RMS = 0.794 ± 0.019
frac_bkg1 = 0.00000 ± 0.00055
ml = 2.0750 ± 0.0053
ml_bkg1 = 0.0
sg = 0.432 ± 0.033
sg_bkg1 = 0.0
sl = 0.1142 ± 0.0073
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

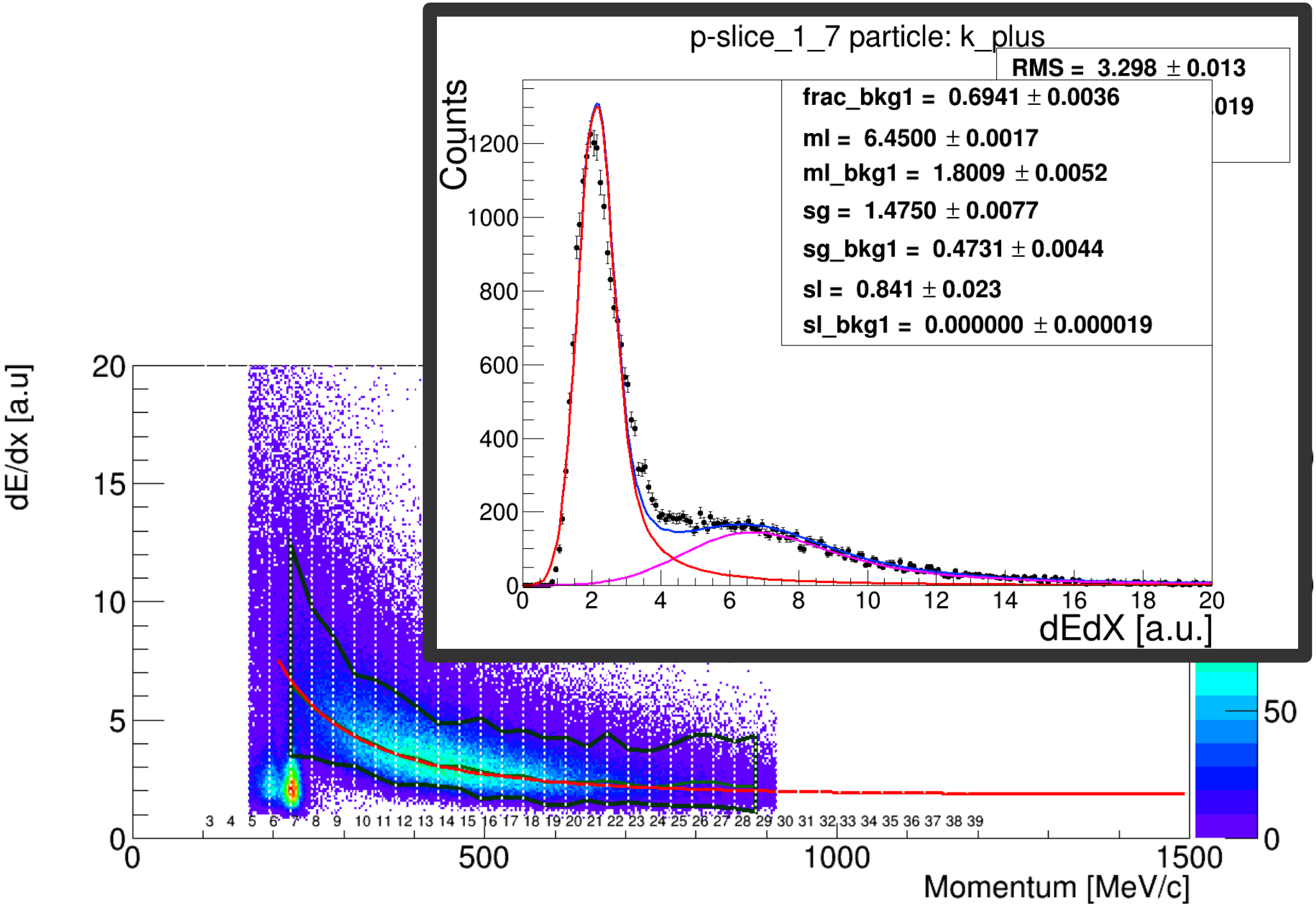
Gauss: Detector Resolution
Landau: dE/dx
---> Convolution of Landau and Gauss

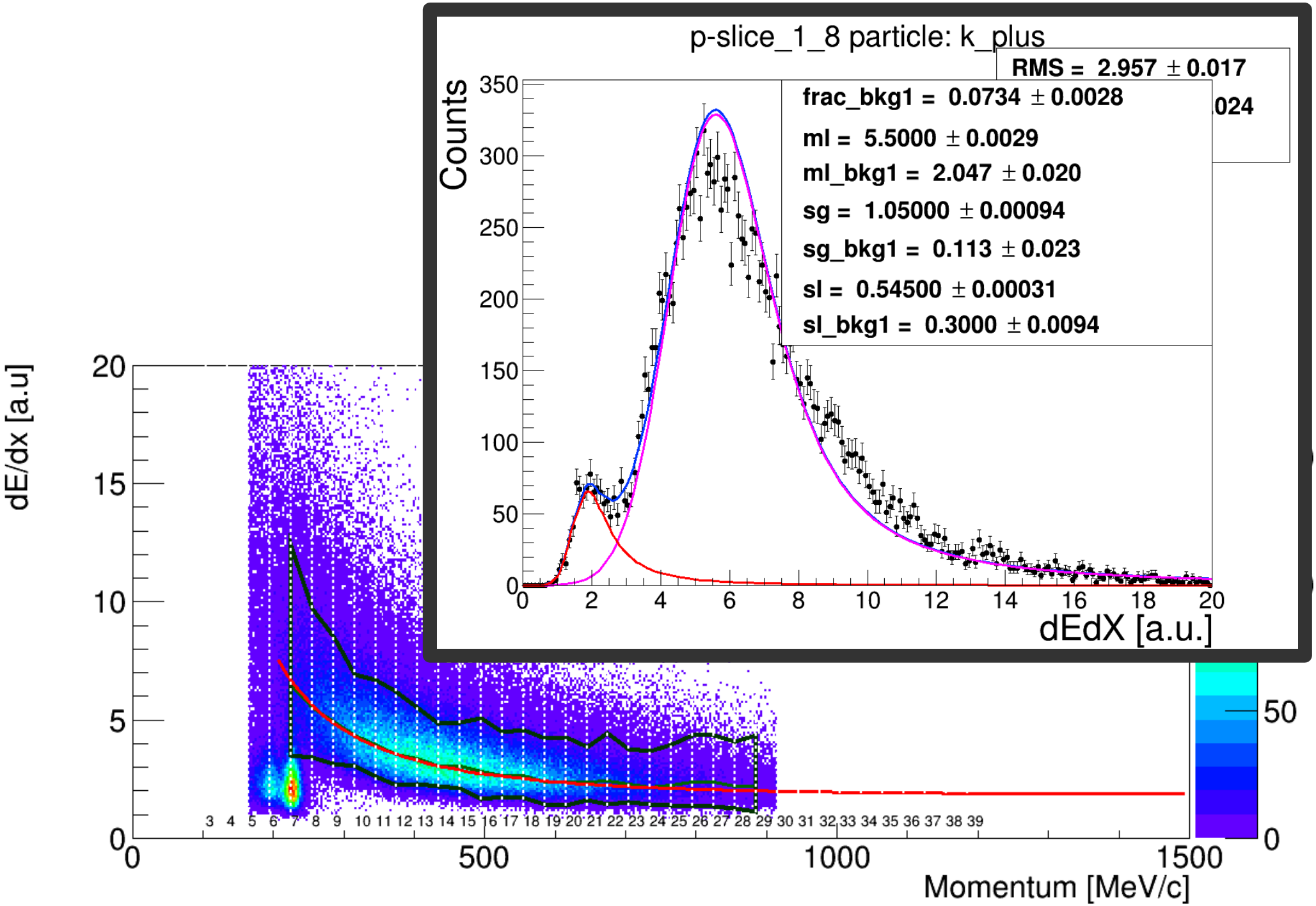


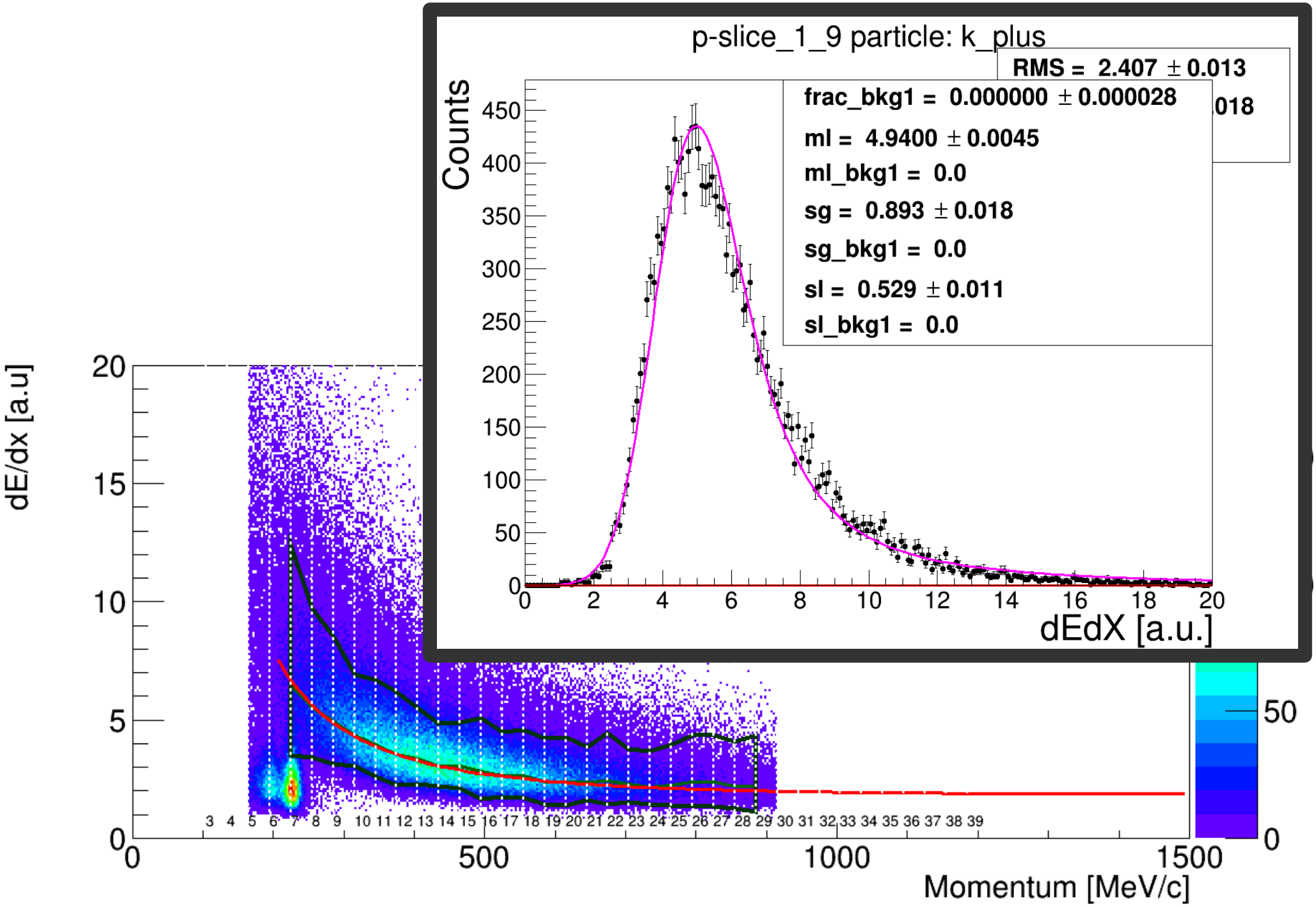

$$\sigma = \sqrt{((sg^2 + sl^2)/2)}$$

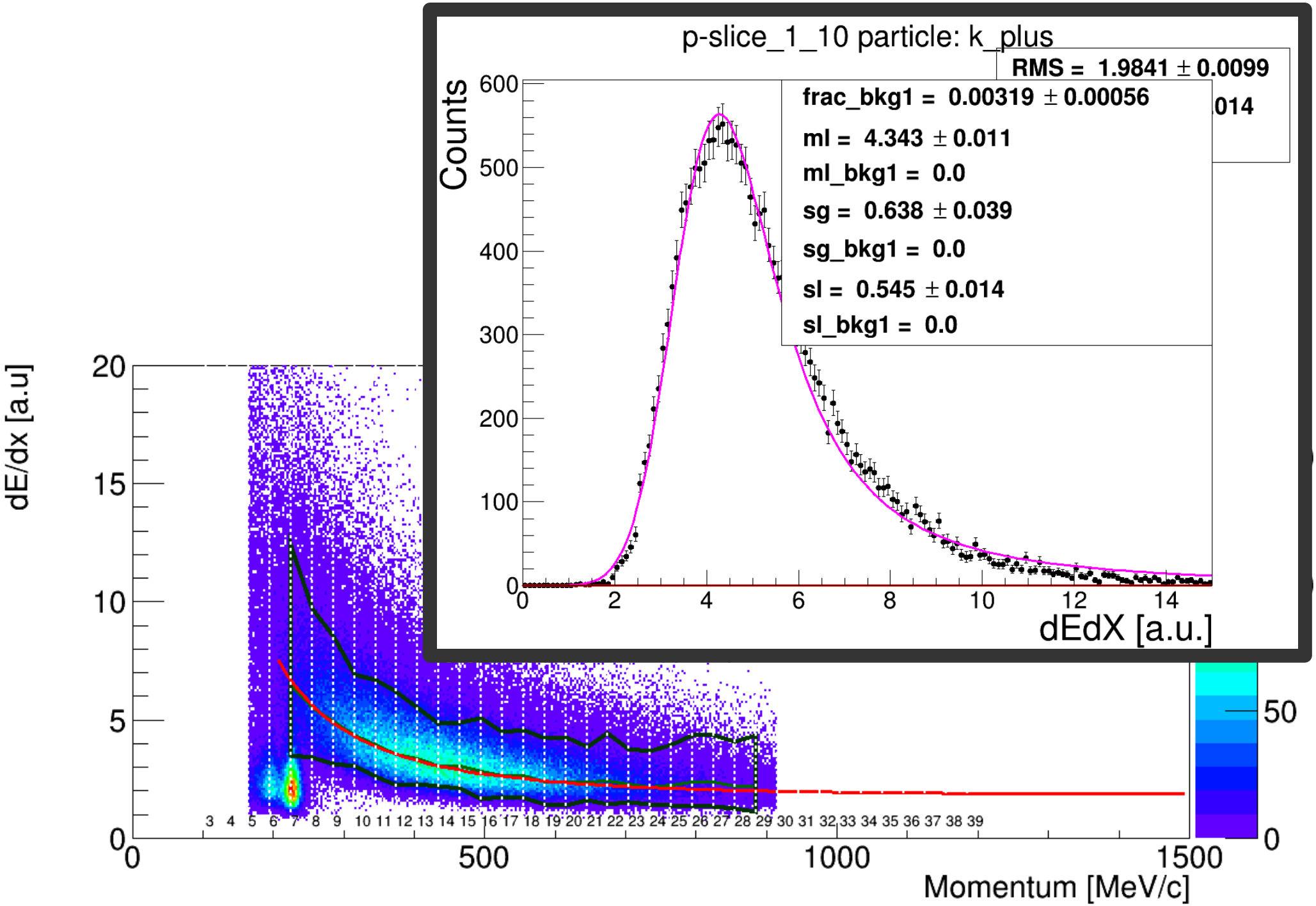
$$+\sigma = 2\sigma$$

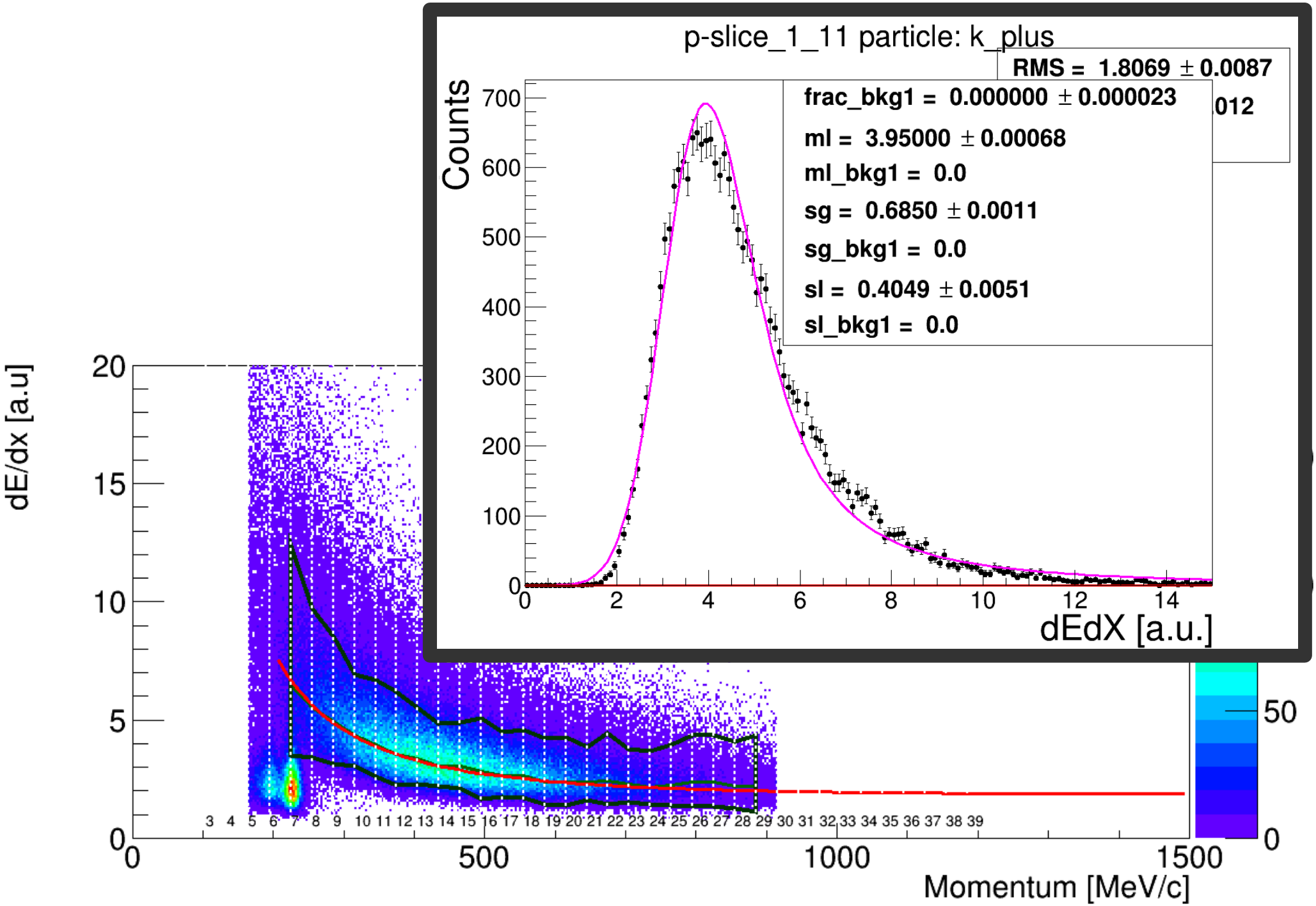
$$-\sigma = \sigma$$

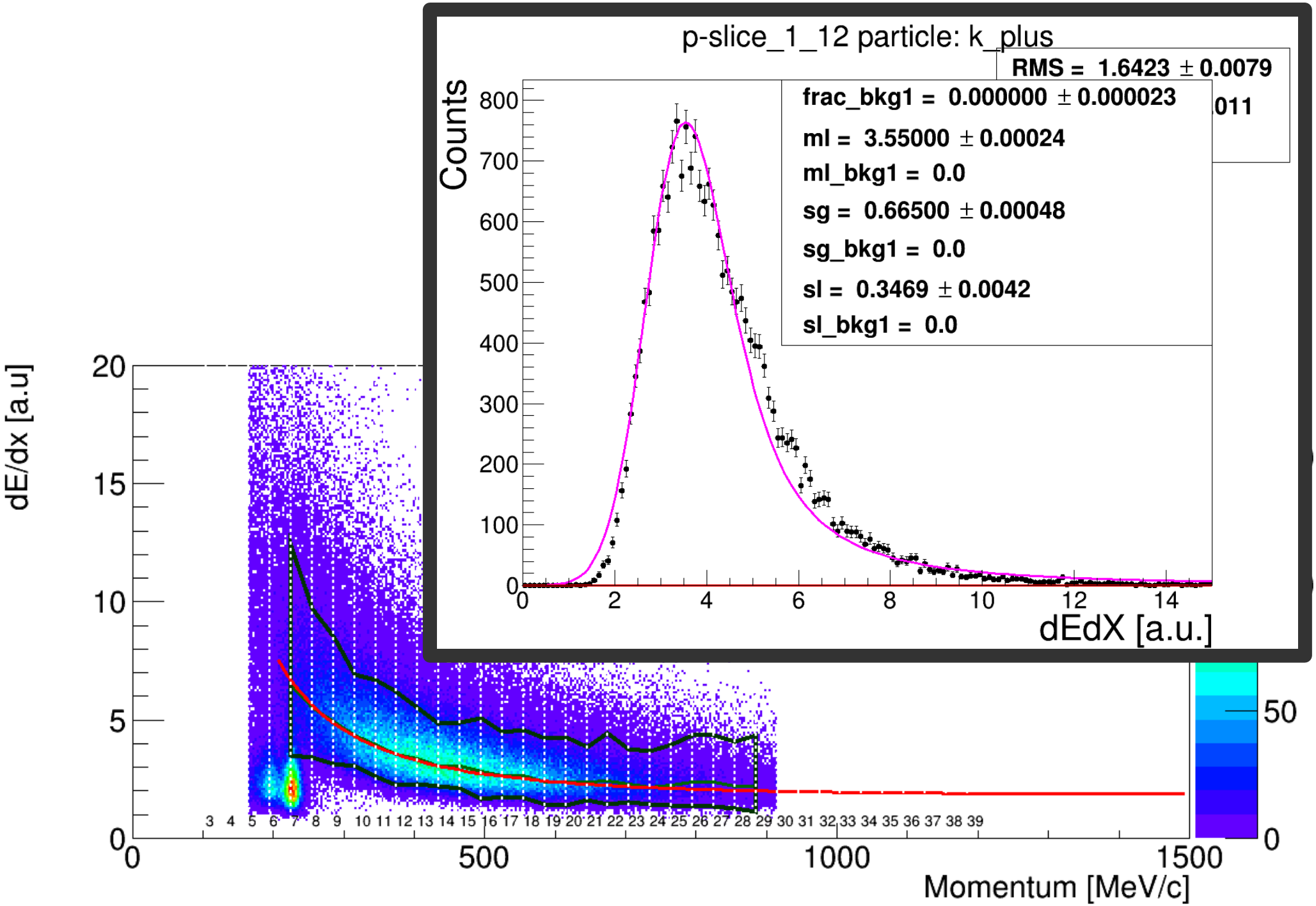

p-slice_1_7 particle: k_plus
RMS = 3.298 ± 0.013
019
frac_bkg1 = 0.6941 ± 0.0036
ml = 6.4500 ± 0.0017
ml_bkg1 = 1.8009 ± 0.0052
sg = 1.4750 ± 0.0077
sg_bkg1 = 0.4731 ± 0.0044
sl = 0.841 ± 0.023
sl_bkg1 = 0.000000 ± 0.000019
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

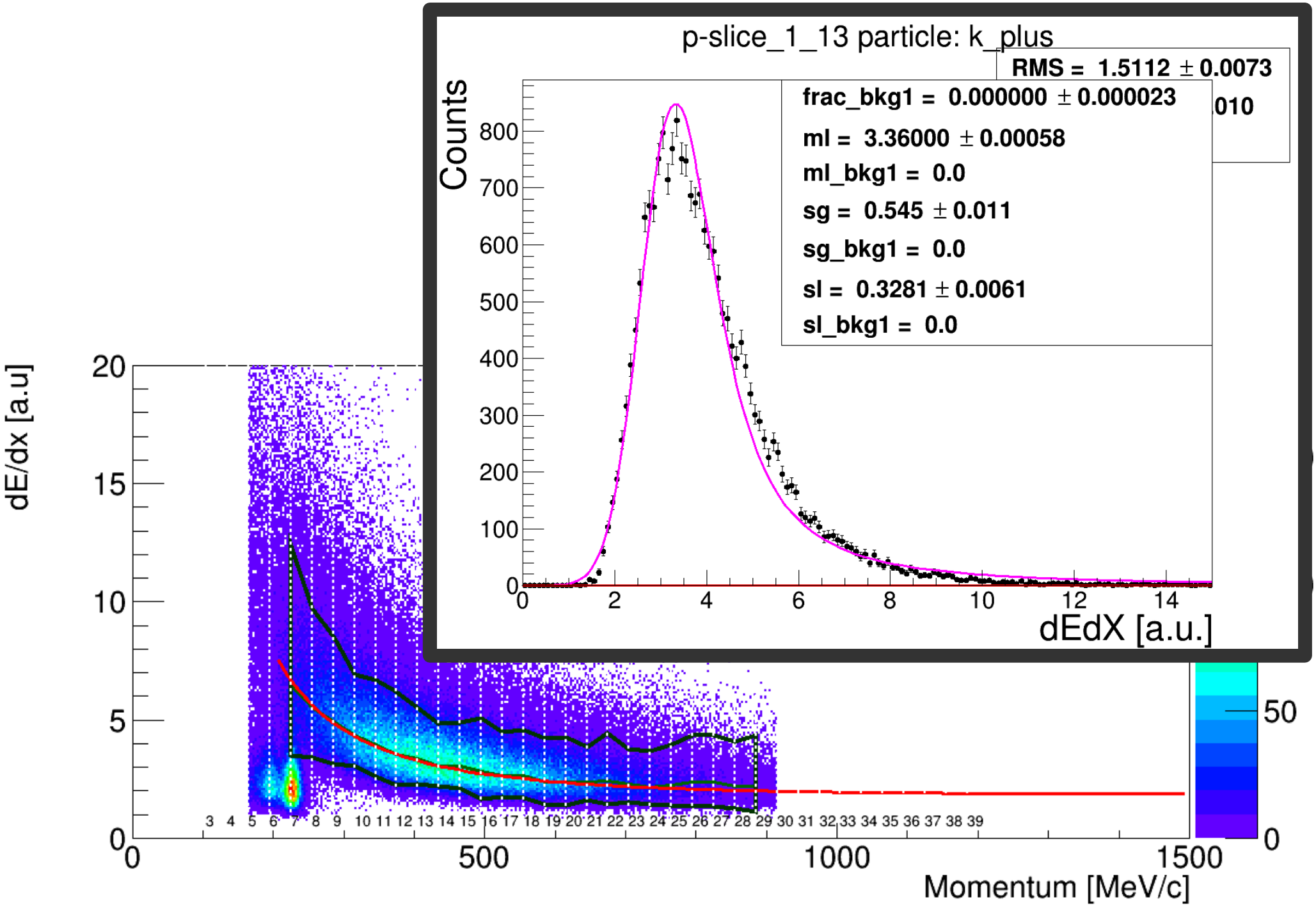

p-slice_1_8 particle: k_plus
RMS = 2.957 ± 0.017
024
frac_bkg1 = 0.0734 ± 0.0028
ml = 5.5000 ± 0.0029
ml_bkg1 = 2.047 ± 0.020
sg = 1.05000 ± 0.00094
sg_bkg1 = 0.113 ± 0.023
sl = 0.54500 ± 0.00031
sl_bkg1 = 0.3000 ± 0.0094
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

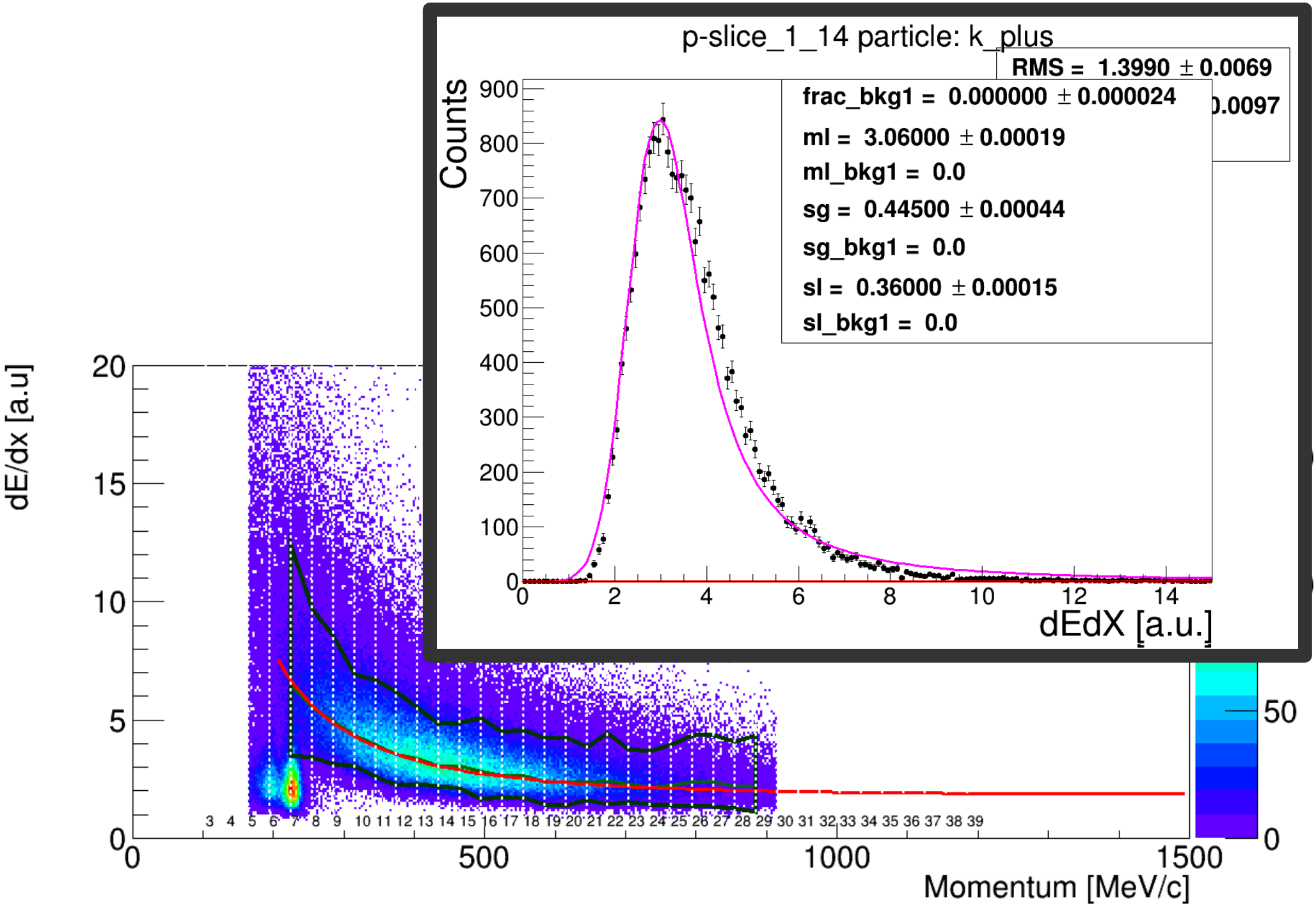

p-slice_1_9 particle: k_plus
RMS = 2.407 ± 0.013
frac_bkg1 = 0.000000 ± 0.000028
ml = 4.9400 ± 0.0045
ml_bkg1 = 0.0
sg = 0.893 ± 0.018
sg_bkg1 = 0.0
sl = 0.529 ± 0.011
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

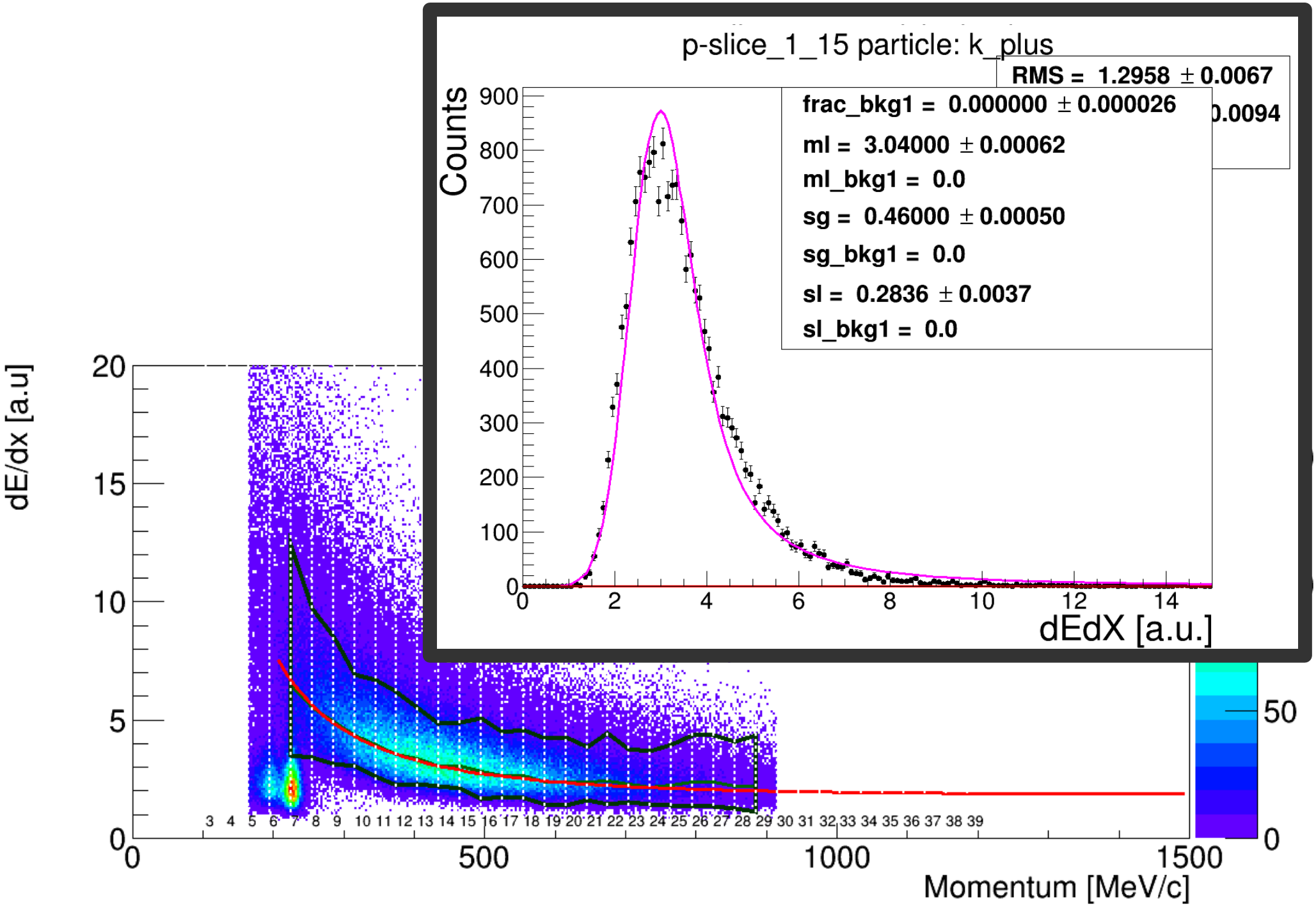

p-slice_1_10 particle: k_plus
RMS = 1.9841 ± 0.0099
014
frac_bkg1 = 0.00319 ± 0.00056
ml = 4.343 ± 0.011
ml_bkg1 = 0.0
sg = 0.638 ± 0.039
sg_bkg1 = 0.0
sl = 0.545 ± 0.014
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

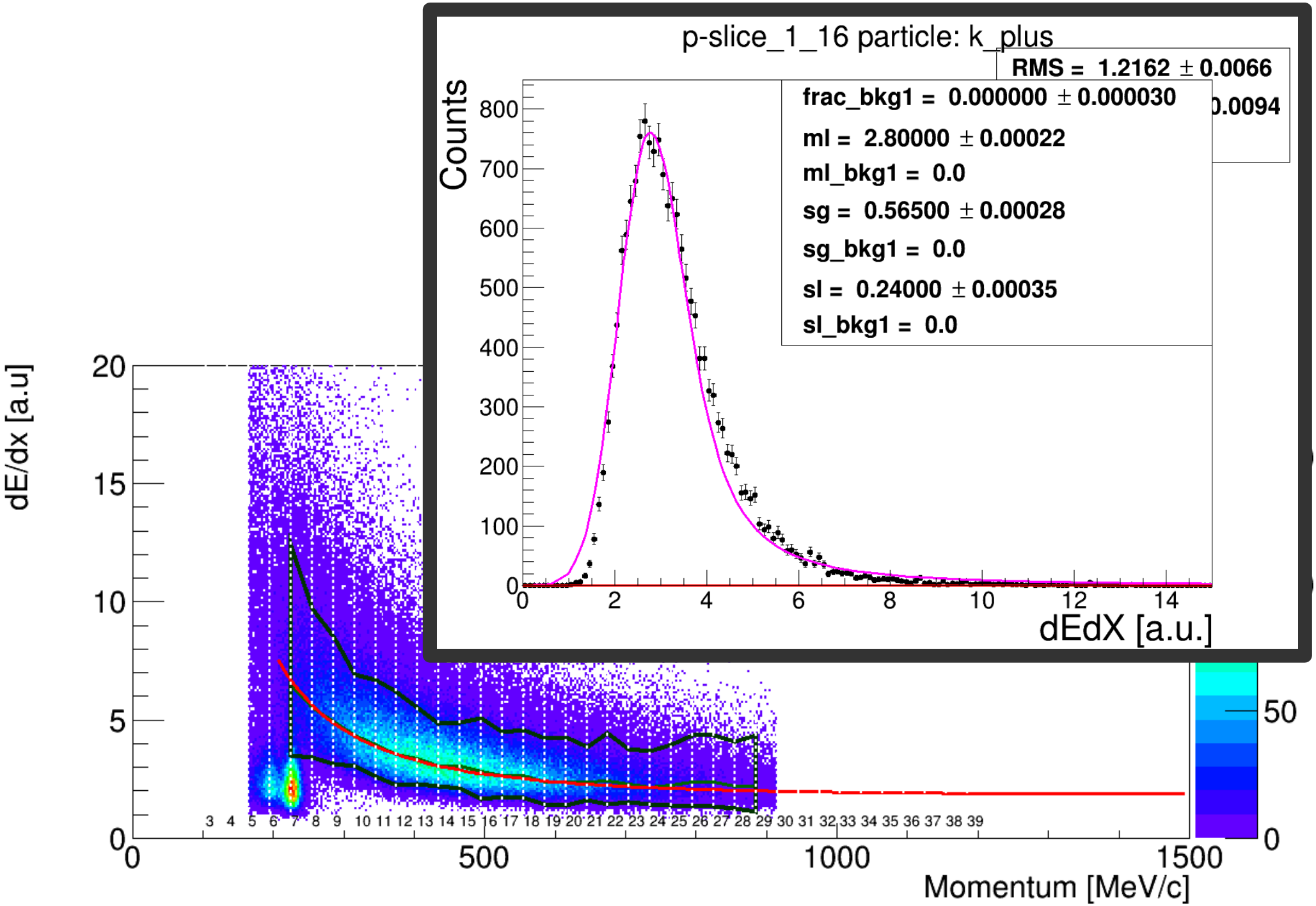

p-slice_1_11 particle: k_plus
RMS = 1.8069 ± 0.0087
012
frac_bkg1 = 0.000000 ± 0.000023
ml = 3.95000 ± 0.00068
ml_bkg1 = 0.0
sg = 0.6850 ± 0.0011
sg_bkg1 = 0.0
sl = 0.4049 ± 0.0051
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

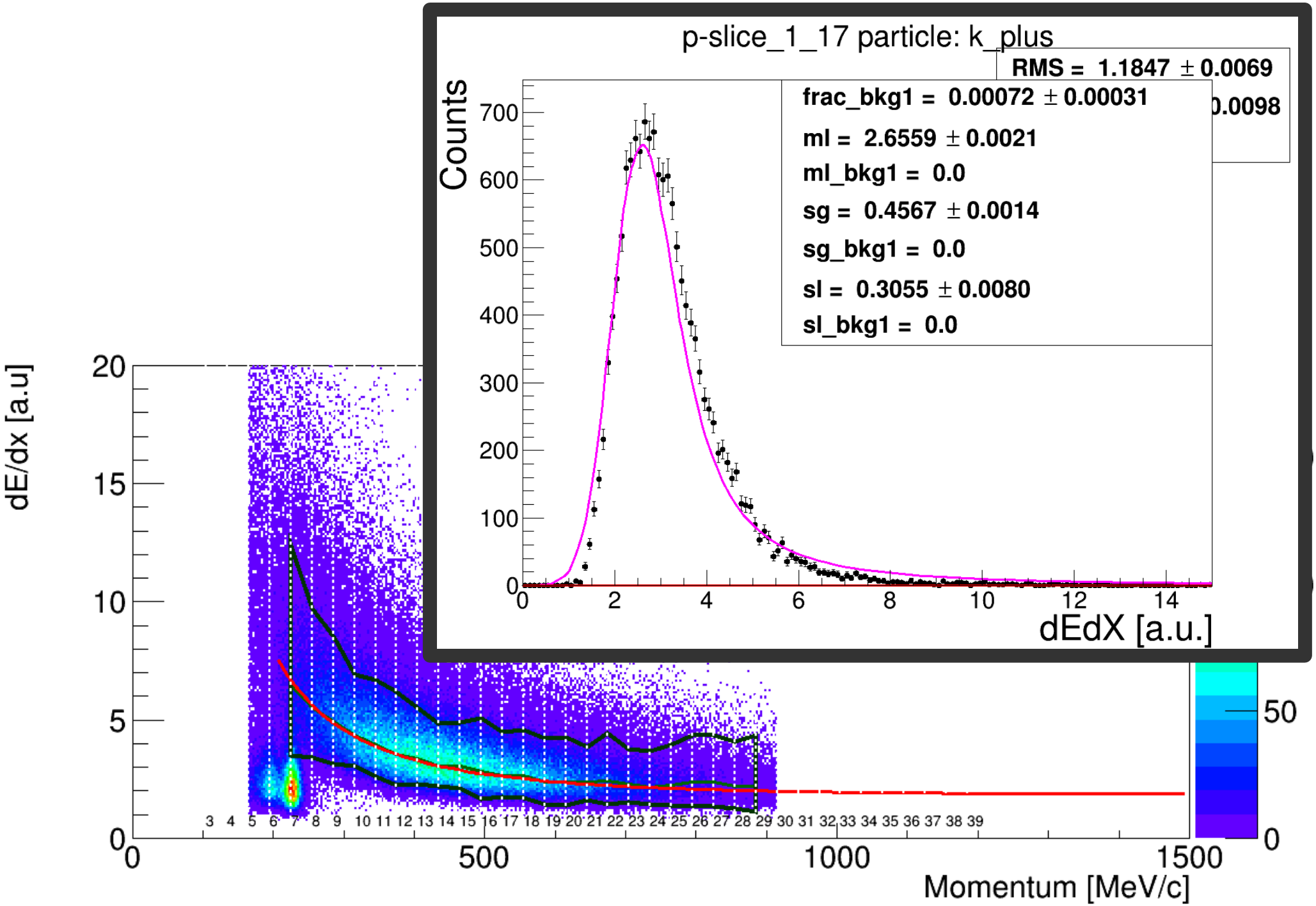

p-slice_1_12 particle: k_plus
RMS = 1.6423 ± 0.0079
011
frac_bkg1 = 0.000000 ± 0.000023
ml = 3.55000 ± 0.00024
ml_bkg1 = 0.0
sg = 0.66500 ± 0.00048
sg_bkg1 = 0.0
sl = 0.3469 ± 0.0042
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

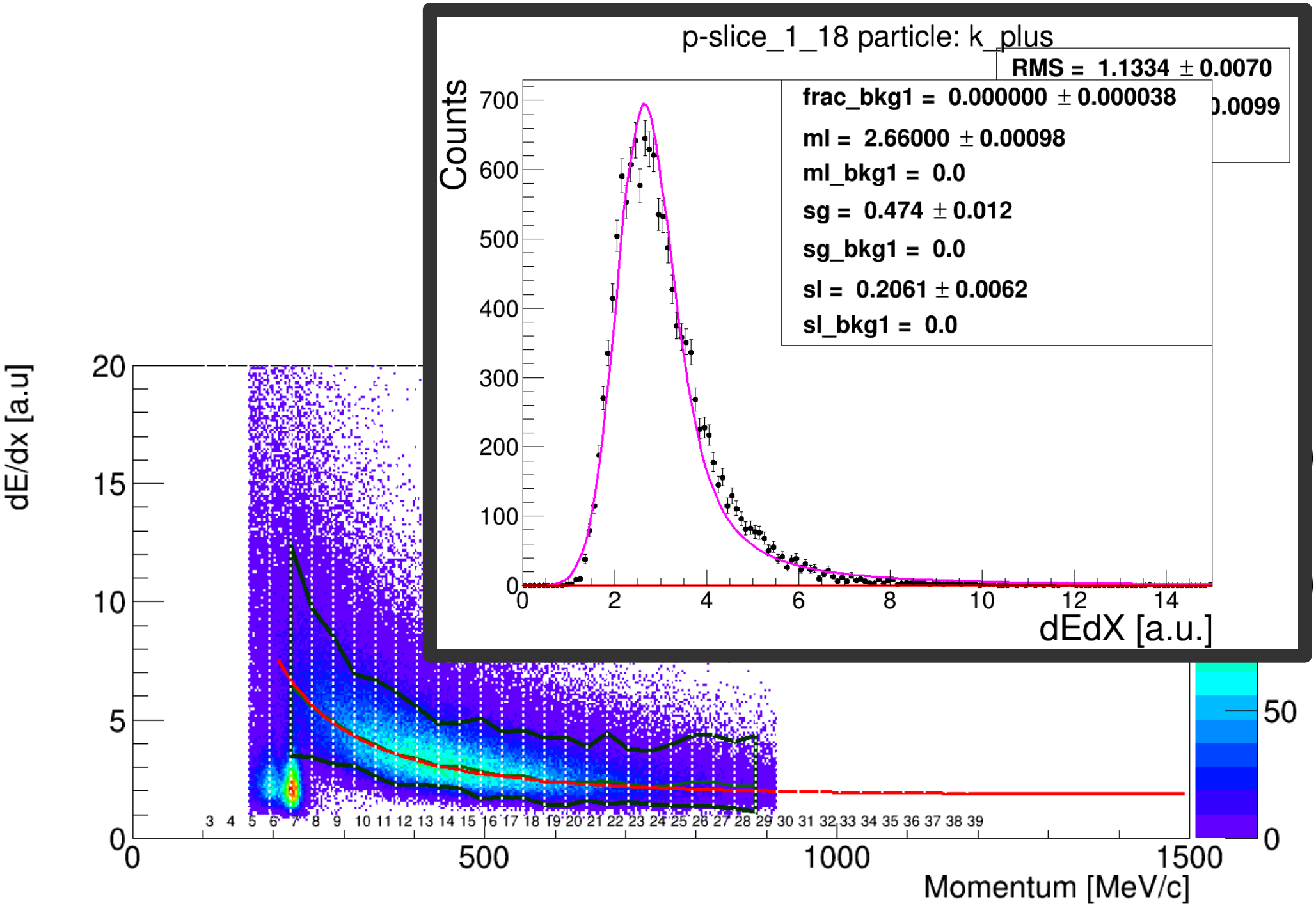

p-slice_1_13 particle: k_plus
RMS = 1.5112 ± 0.0073
010
frac_bkg1 = 0.000000 ± 0.000023
ml = 3.36000 ± 0.00058
ml_bkg1 = 0.0
sg = 0.545 ± 0.011
sg_bkg1 = 0.0
sl = 0.3281 ± 0.0061
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

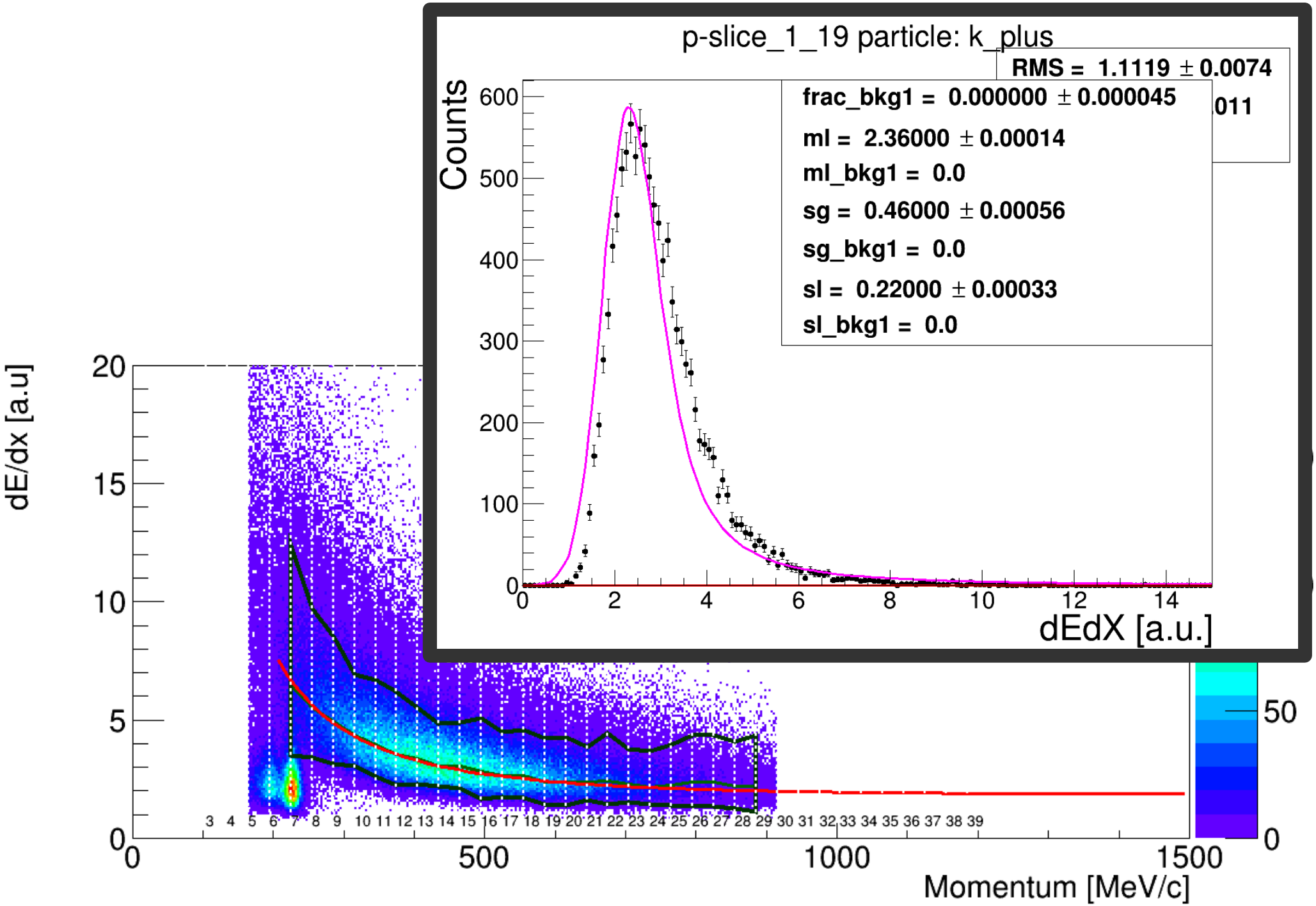

p-slice_1_14 particle: k_plus
RMS = 1.3990 ± 0.0069
0.0097
frac_bkg1 = 0.000000 ± 0.000024
ml = 3.06000 ± 0.00019
ml_bkg1 = 0.0
sg = 0.44500 ± 0.00044
sg_bkg1 = 0.0
sl = 0.36000 ± 0.00015
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

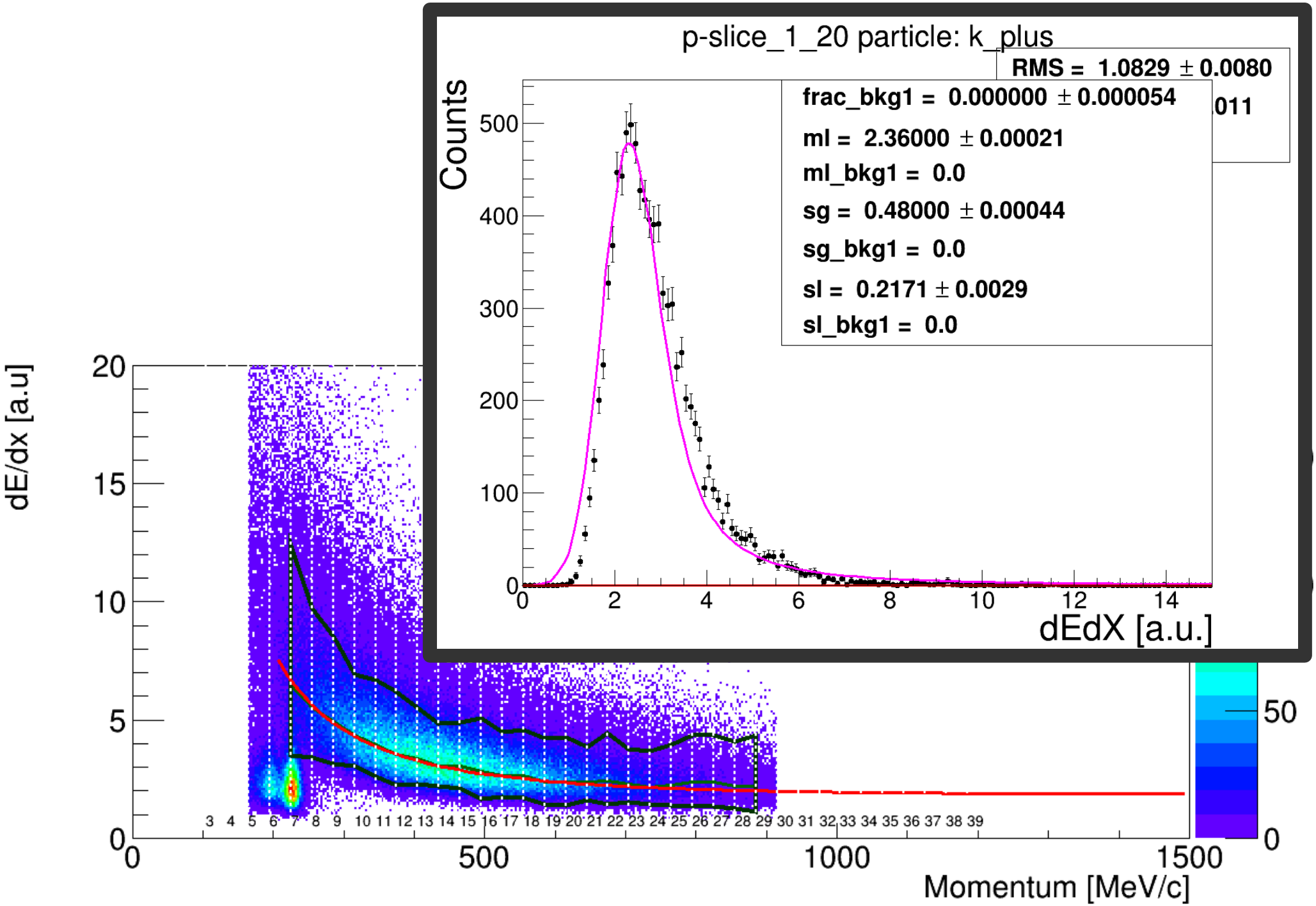

p-slice_1_15 particle: k_plus
RMS = 1.2958 ± 0.0067
0.0094
frac_bkg1 = 0.000000 ± 0.000026
ml = 3.04000 ± 0.00062
ml_bkg1 = 0.0
sg = 0.46000 ± 0.00050
sg_bkg1 = 0.0
sl = 0.2836 ± 0.0037
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

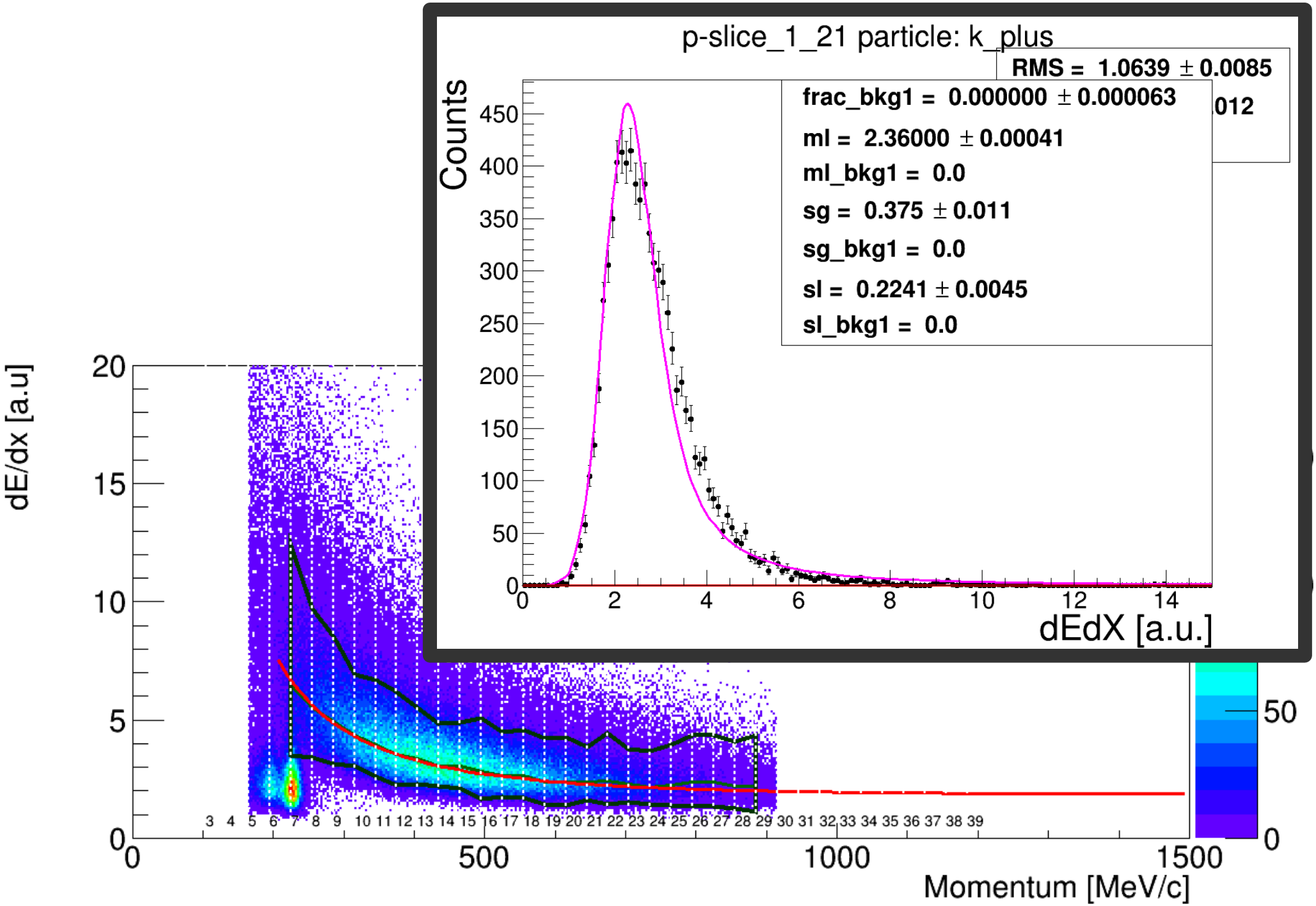

p-slice_1_16 particle: k_plus
RMS = 1.2162 ± 0.0066
0.0094
frac_bkg1 = 0.000000 ± 0.000030
ml = 2.80000 ± 0.00022
ml_bkg1 = 0.0
sg = 0.56500 ± 0.00028
sg_bkg1 = 0.0
sl = 0.24000 ± 0.00035
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

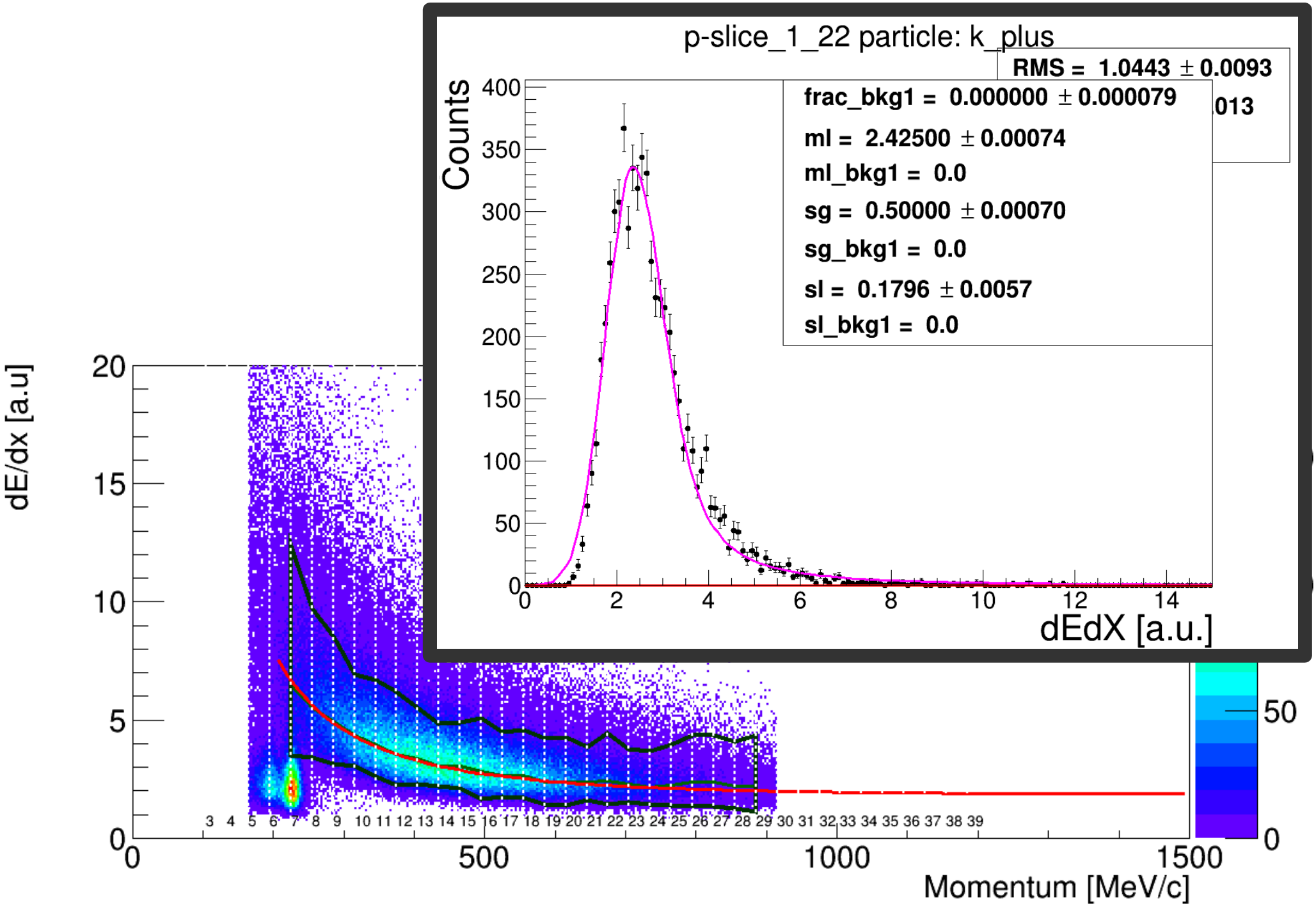

p-slice_1_17 particle: k_plus
RMS = 1.1847 ± 0.0069
0.0098
frac_bkg1 = 0.00072 ± 0.00031
ml = 2.6559 ± 0.0021
ml_bkg1 = 0.0
sg = 0.4567 ± 0.0014
sg_bkg1 = 0.0
sl = 0.3055 ± 0.0080
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

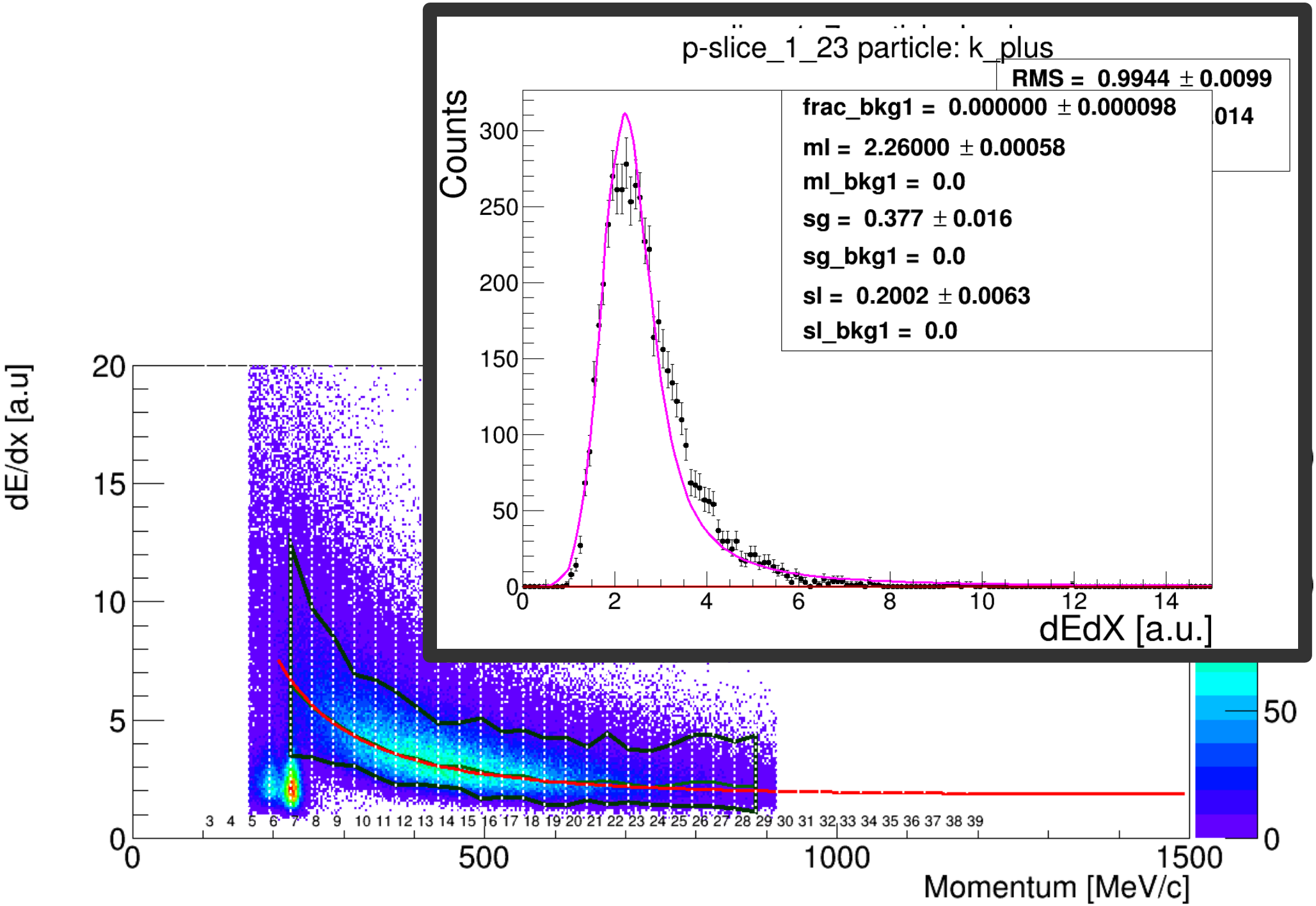

p-slice_1_18 particle: k_plus
RMS = 1.1334 ± 0.0070
0.0099
frac_bkg1 = 0.000000 ± 0.000038
ml = 2.66000 ± 0.00098
ml_bkg1 = 0.0
sg = 0.474 ± 0.012
sg_bkg1 = 0.0
sl = 0.2061 ± 0.0062
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

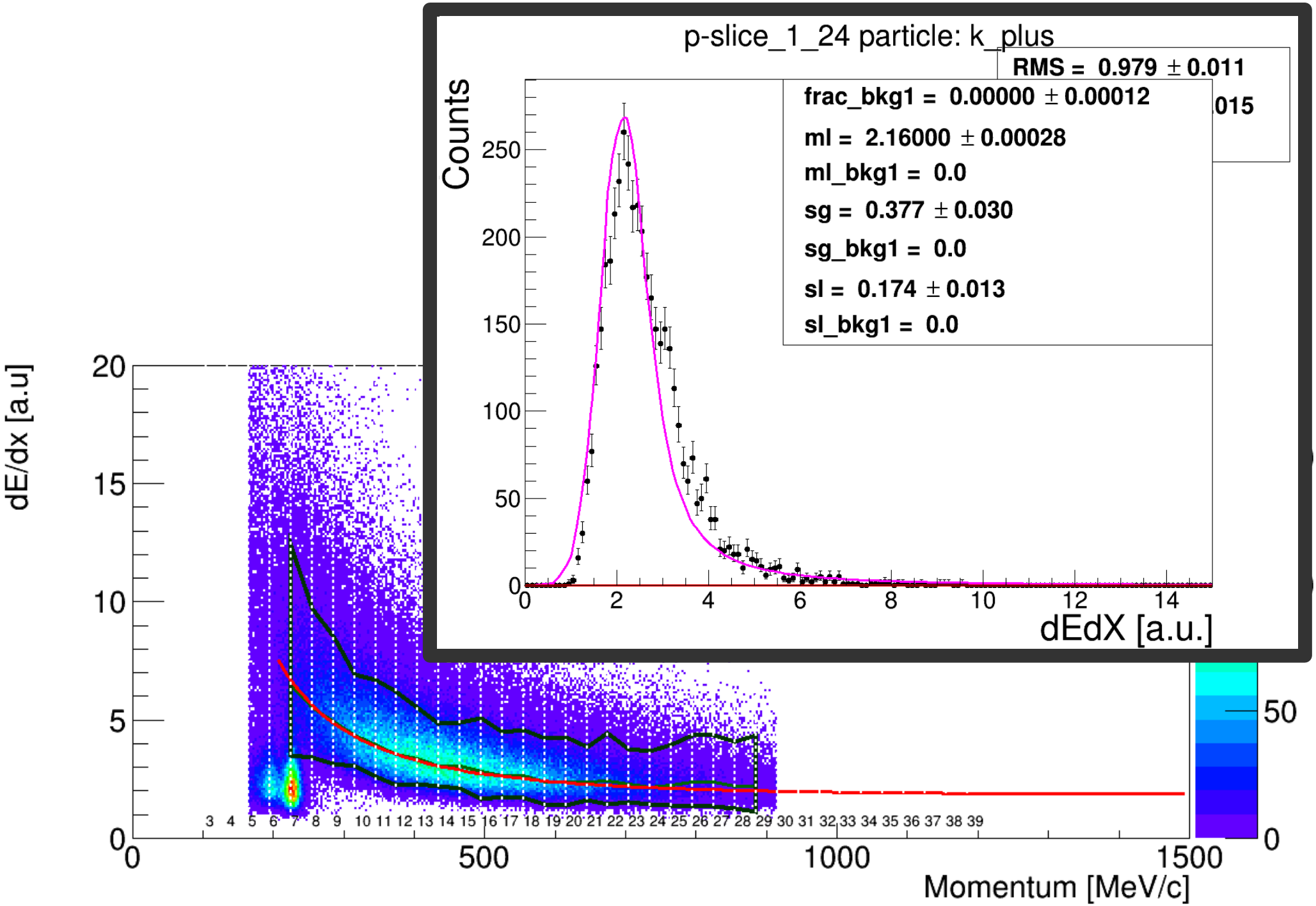

p-slice_1_19 particle: k_plus
RMS = 1.1119 ± 0.0074
011
frac_bkg1 = 0.000000 ± 0.000045
ml = 2.36000 ± 0.00014
ml_bkg1 = 0.0
sg = 0.46000 ± 0.00056
sg_bkg1 = 0.0
sl = 0.22000 ± 0.00033
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

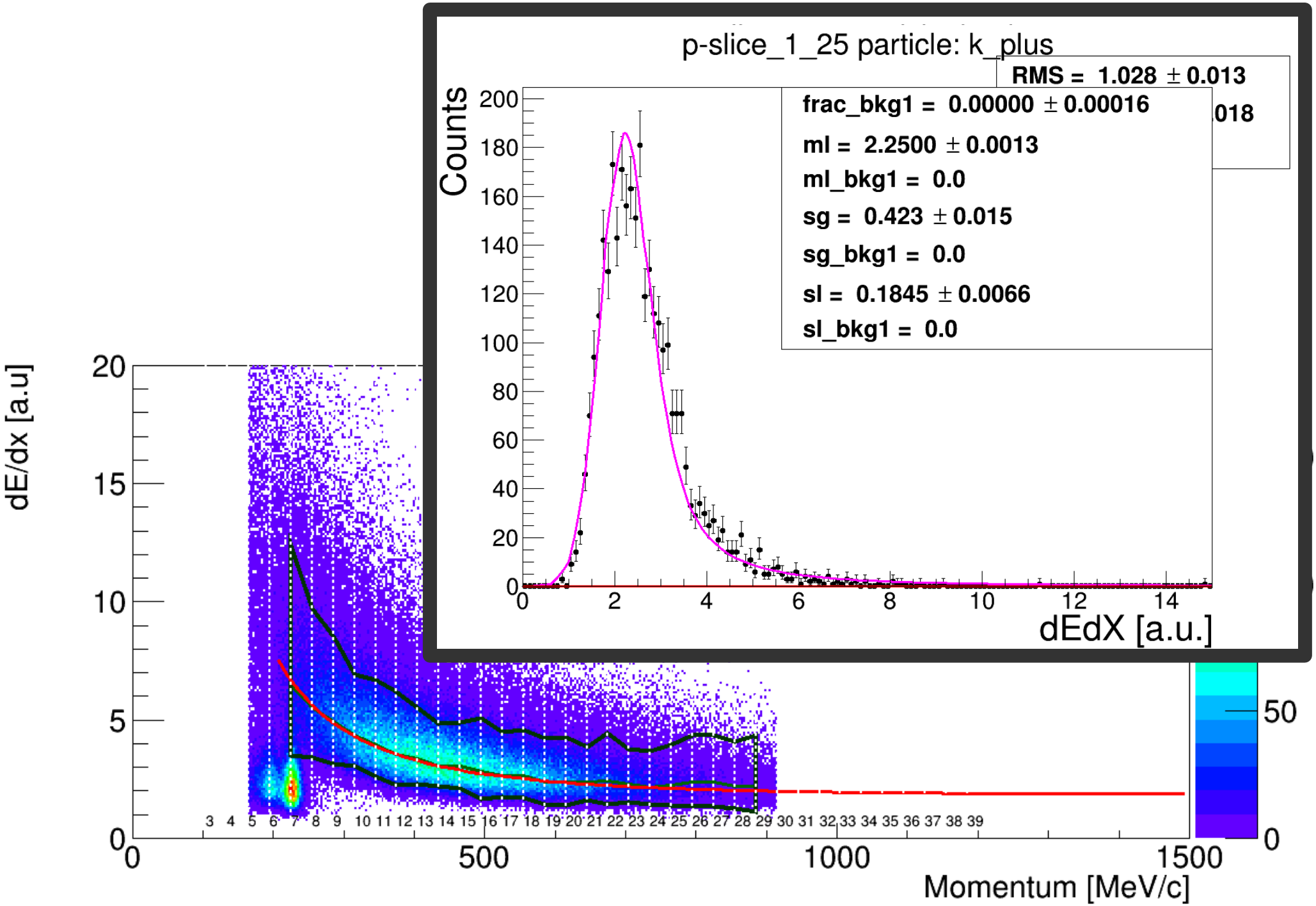

p-slice_1_20 particle: k_plus
RMS = 1.0829 ± 0.0080
011
frac_bkg1 = 0.000000 ± 0.000054
ml = 2.36000 ± 0.00021
ml_bkg1 = 0.0
sg = 0.48000 ± 0.00044
sg_bkg1 = 0.0
sl = 0.2171 ± 0.0029
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

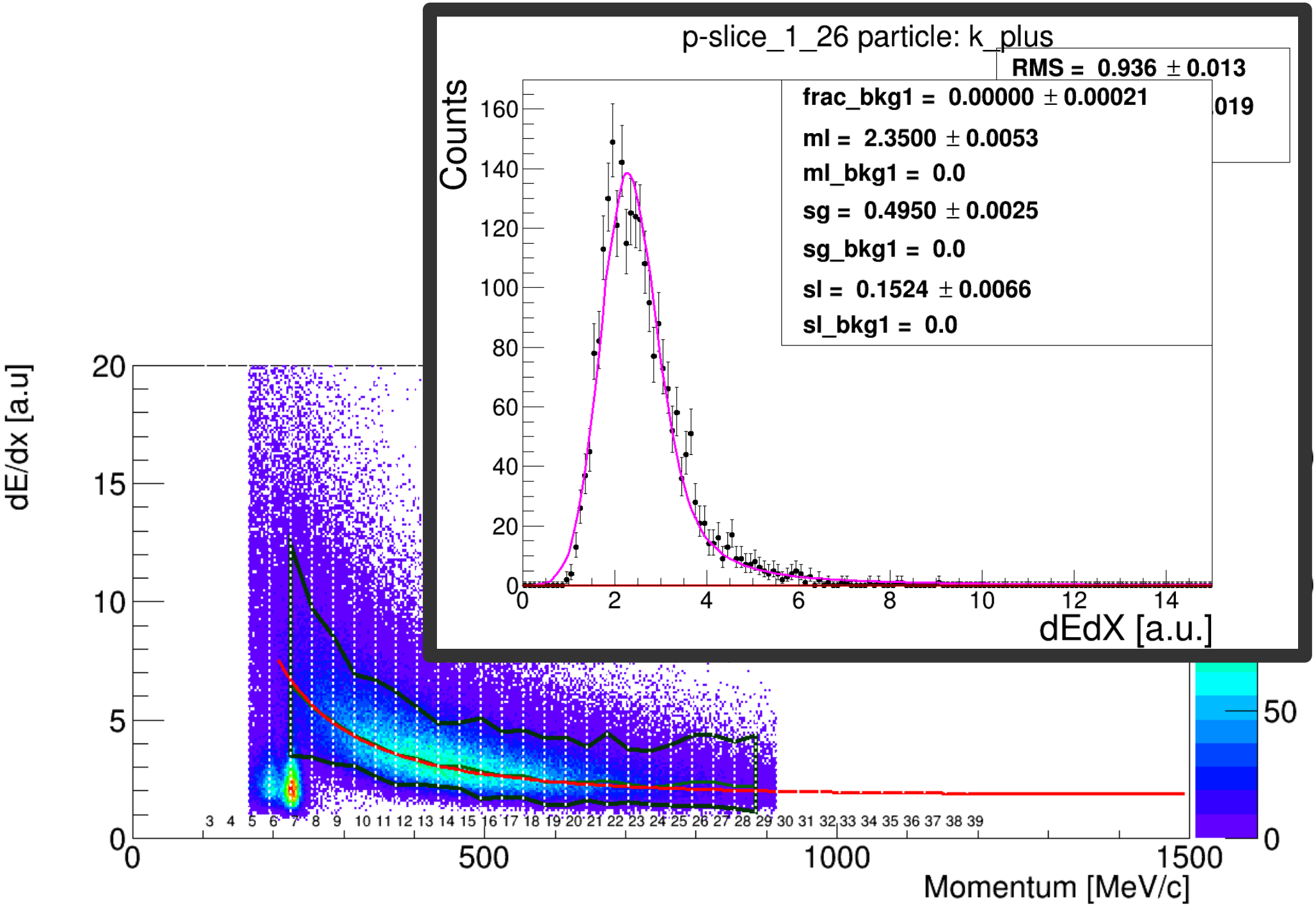

p-slice_1_21 particle: k_plus
RMS = 1.0639 ± 0.0085
012
frac_bkg1 = 0.000000 ± 0.000063
ml = 2.36000 ± 0.00041
ml_bkg1 = 0.0
sg = 0.375 ± 0.011
sg_bkg1 = 0.0
sl = 0.2241 ± 0.0045
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

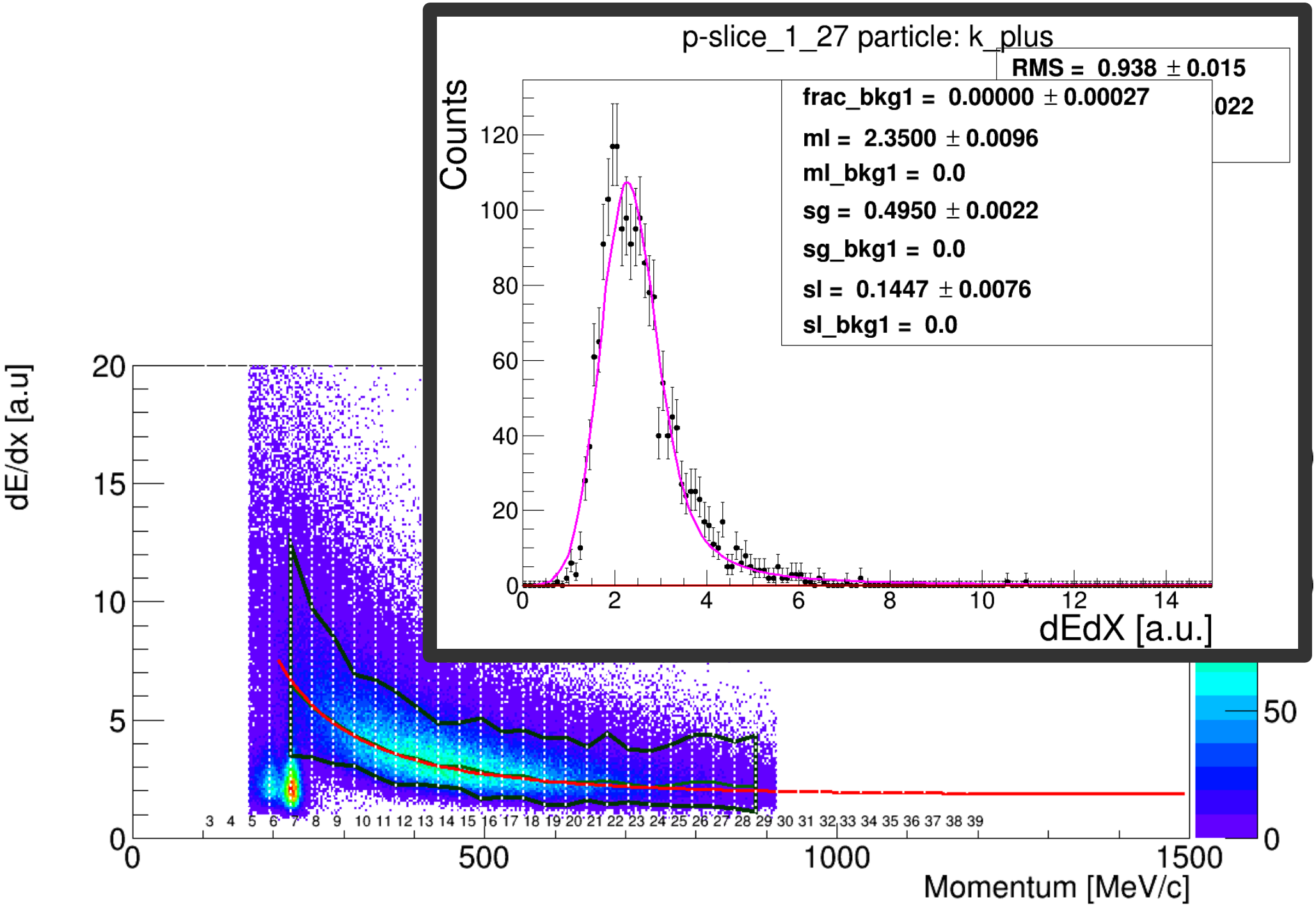

p-slice_1_22 particle: k_plus
RMS = 1.0443 ± 0.0093
013
frac_bkg1 = 0.000000 ± 0.000079
ml = 2.42500 ± 0.00074
ml_bkg1 = 0.0
sg = 0.50000 ± 0.00070
sg_bkg1 = 0.0
sl = 0.1796 ± 0.0057
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

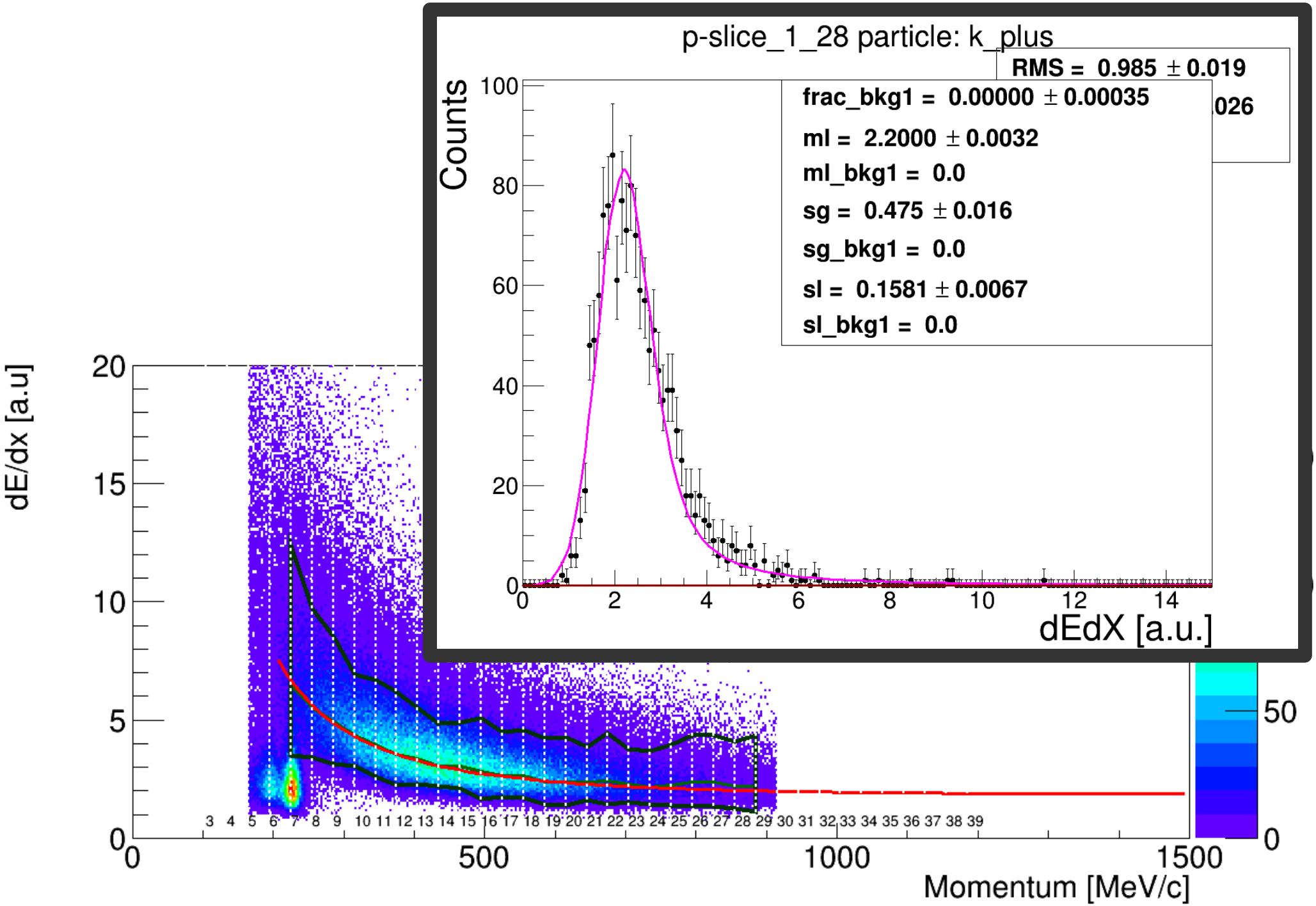

p-slice_1_23 particle: k_plus
RMS = 0.9944 ± 0.0099
014
frac_bkg1 = 0.000000 ± 0.000098
ml = 2.26000 ± 0.00058
ml_bkg1 = 0.0
sg = 0.377 ± 0.016
sg_bkg1 = 0.0
sl = 0.2002 ± 0.0063
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]

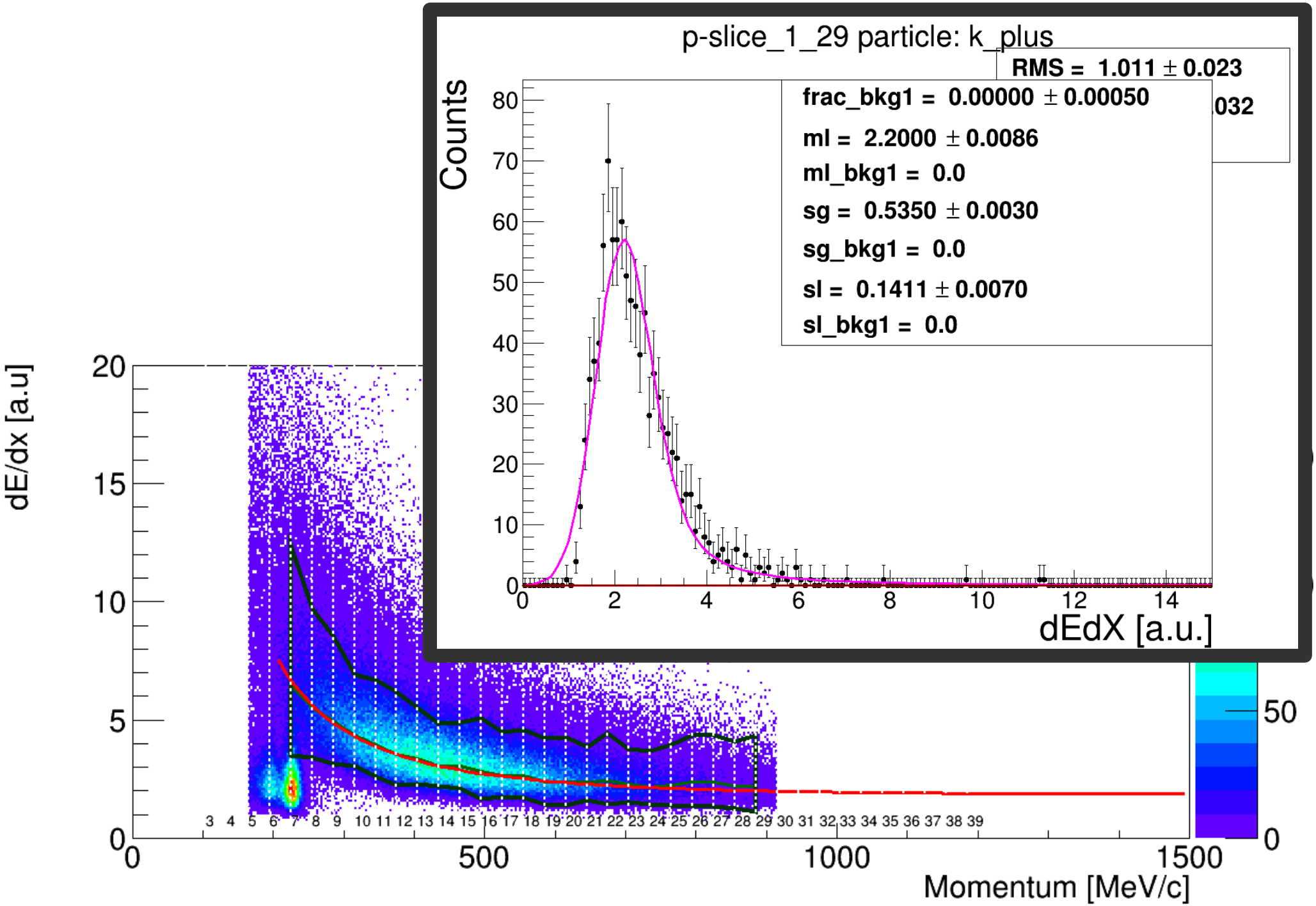

p-slice_1_24 particle: k_plus
RMS = 0.979 ± 0.011
015
frac_bkg1 = 0.00000 ± 0.00012
ml = 2.16000 ± 0.00028
ml_bkg1 = 0.0
sg = 0.377 ± 0.030
sg_bkg1 = 0.0
sl = 0.174 ± 0.013
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_1_25 particle: k_plus
RMS = 1.028 ± 0.013
frac_bkg1 = 0.00000 ± 0.00016
ml = 2.2500 ± 0.0013
ml_bkg1 = 0.0
sg = 0.423 ± 0.015
sg_bkg1 = 0.0
sl = 0.1845 ± 0.0066
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_1_26 particle: k_plus
RMS = 0.936 ± 0.013
019
frac_bkg1 = 0.00000 ± 0.00021
ml = 2.3500 ± 0.0053
ml_bkg1 = 0.0
sg = 0.4950 ± 0.0025
sg_bkg1 = 0.0
sl = 0.1524 ± 0.0066
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_1_27 particle: k_plus
RMS = 0.938 ± 0.015
022
frac_bkg1 = 0.00000 ± 0.00027
ml = 2.3500 ± 0.0096
ml_bkg1 = 0.0
sg = 0.4950 ± 0.0022
sg_bkg1 = 0.0
sl = 0.1447 ± 0.0076
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]


p-slice_1_28 particle: k_plus
RMS = 0.985 ± 0.019
026
frac_bkg1 = 0.00000 ± 0.00035
ml = 2.2000 ± 0.0032
ml_bkg1 = 0.0
sg = 0.475 ± 0.016
sg_bkg1 = 0.0
sl = 0.1581 ± 0.0067
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39


p-slice_1_29 particle: k_plus
RMS = 1.011 ± 0.023
032
frac_bkg1 = 0.00000 ± 0.00050
ml = 2.2000 ± 0.0086
ml_bkg1 = 0.0
sg = 0.5350 ± 0.0030
sg_bkg1 = 0.0
sl = 0.1411 ± 0.0070
sl_bkg1 = 0.0
Counts
dEdX [a.u.]
dE/dx [a.u]
Momentum [MeV/c]