data vs fit curve

p1*m^{p2}*exp(p3*m+p4*m^2+p5*m^3)

p1 = 3.266e+11 $\pm$ 4.929e+09

p2 = -3.412e+00 $\pm$ 4.765e-02

p3 = -1.900e-03 $\pm$ 2.356e-05

p4 = 4.059e-08 $\pm$ 5.335e-10

p5 = -5.261e-12 $\pm$ 8.311e-14
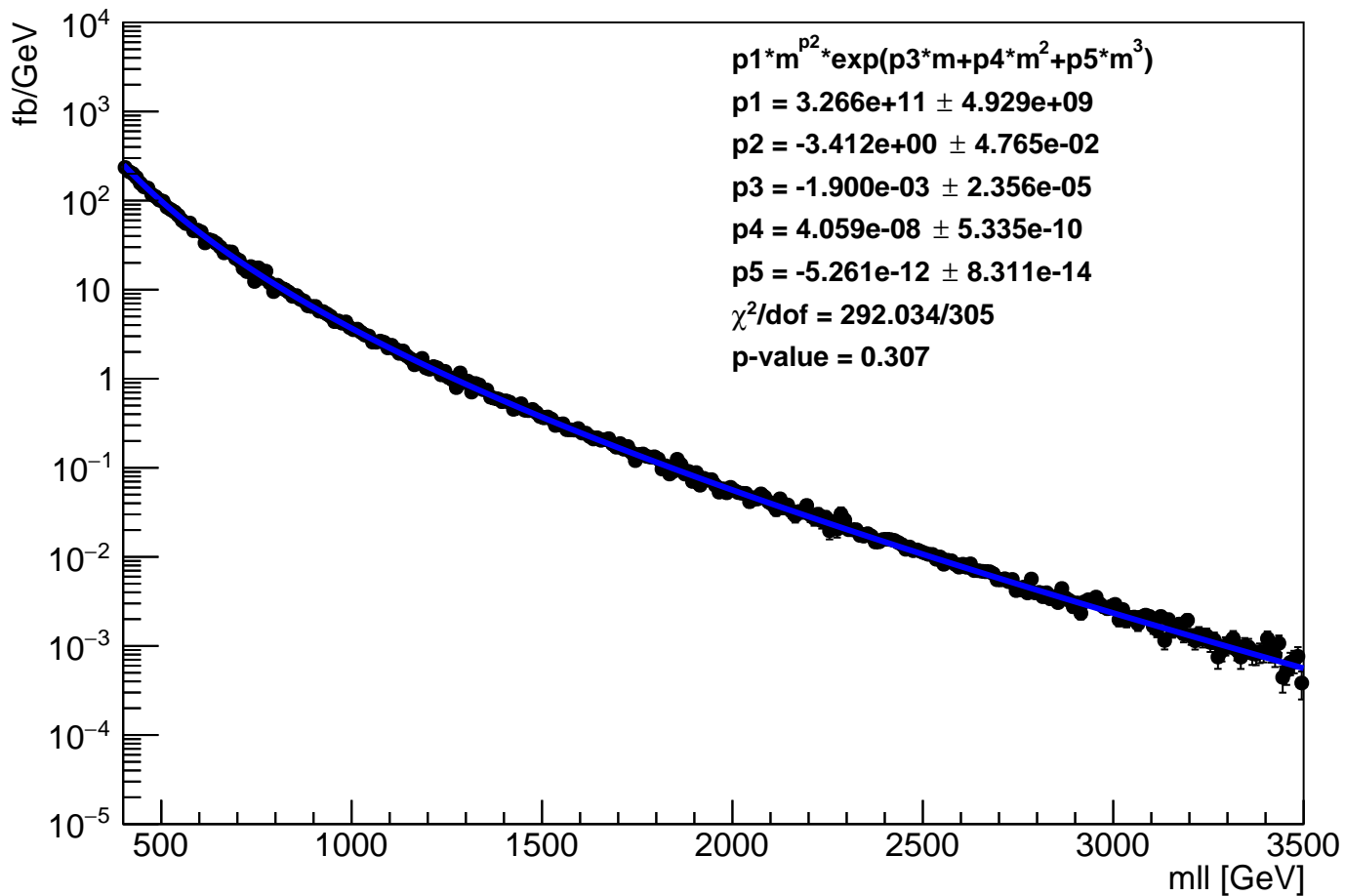
χ^2/dof = 292.034/305

p-value = 0.307

Pull of Histogram of elbe2018_sig_MC_plot__elbe2018_mass and Projection of elbe2018_sigmodel