data vs fit curve

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

$p1 = 4.118e+11 \pm 6.205e+09$

$p2 = -3.397e+00 \pm 4.449e-02$

$p3 = -2.111e-03 \pm 3.222e-05$

$p4 = 2.164e-07 \pm 3.514e-09$

$p5 = -3.206e-11 \pm 5.286e-13$
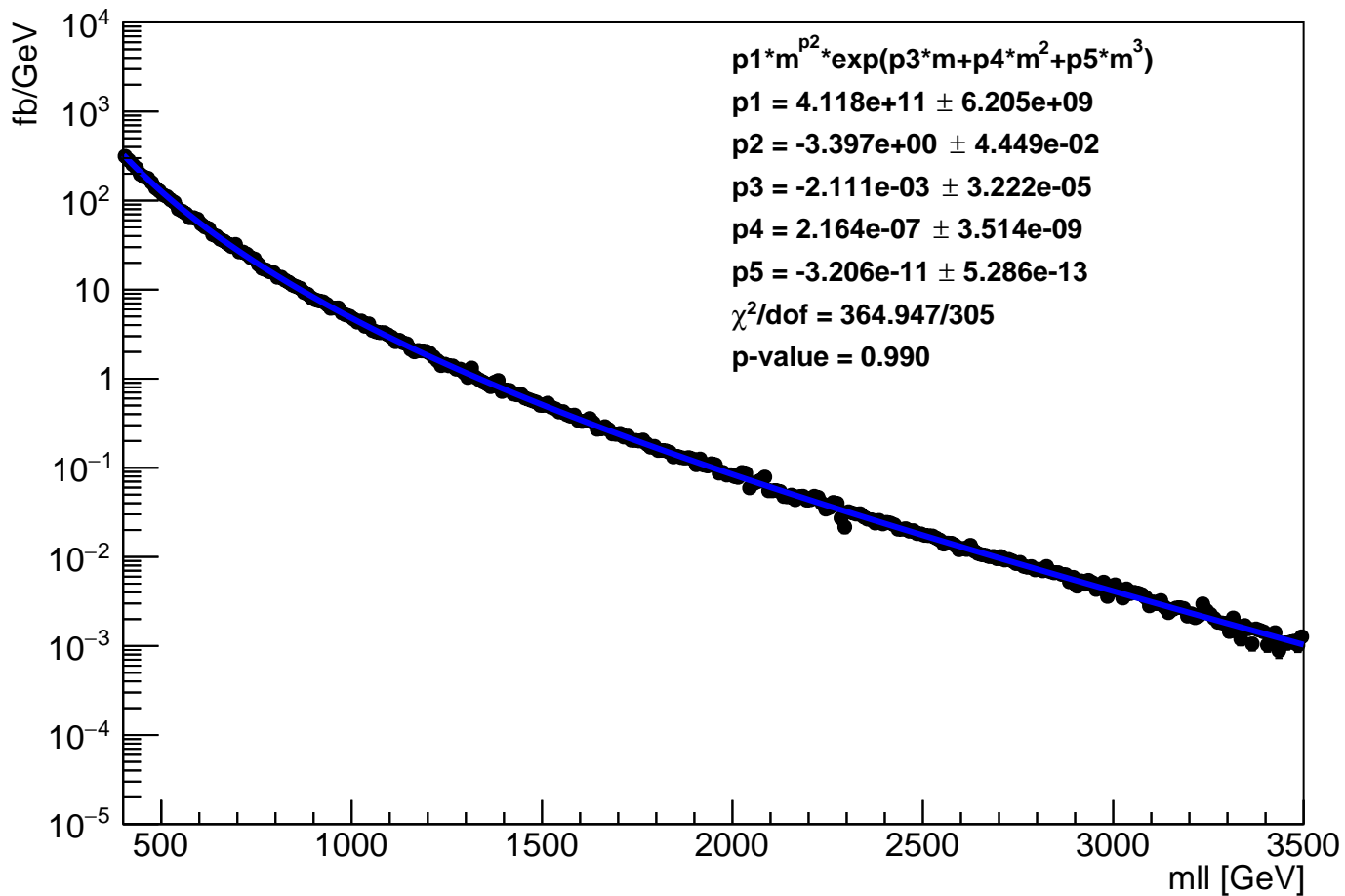
χ^2/dof = 364.947/305

p-value = 0.990

Pull of Histogram of mube2016_sig_MC_plot__mube2016_mass and Projection of mube2016_sigmodel