

FIG. 2: The two-nucleon second order estimate,  $[\tan \delta_1]^{2^{nd}}$ , calculated using  $\Psi_1$  as a function of the non linear parameter  $\gamma$ , for the values M=20,30,40 and the integral  $I_{\gamma}$  as a function of  $\gamma$  at the same three values of M.