

FIG. 5: Neutron shell corrections $\delta E_n(\gamma, p)$ for the nucleus ^{146}Gd as a function of the smoothing range γ calculated for p=6,...,14 by using the finite-range weight function for the smoothing functions f_p . Dotted horizontal line shows the value of the semi-classical value $\delta E_{sc} = E_{sc} - E_{sp}^n$.