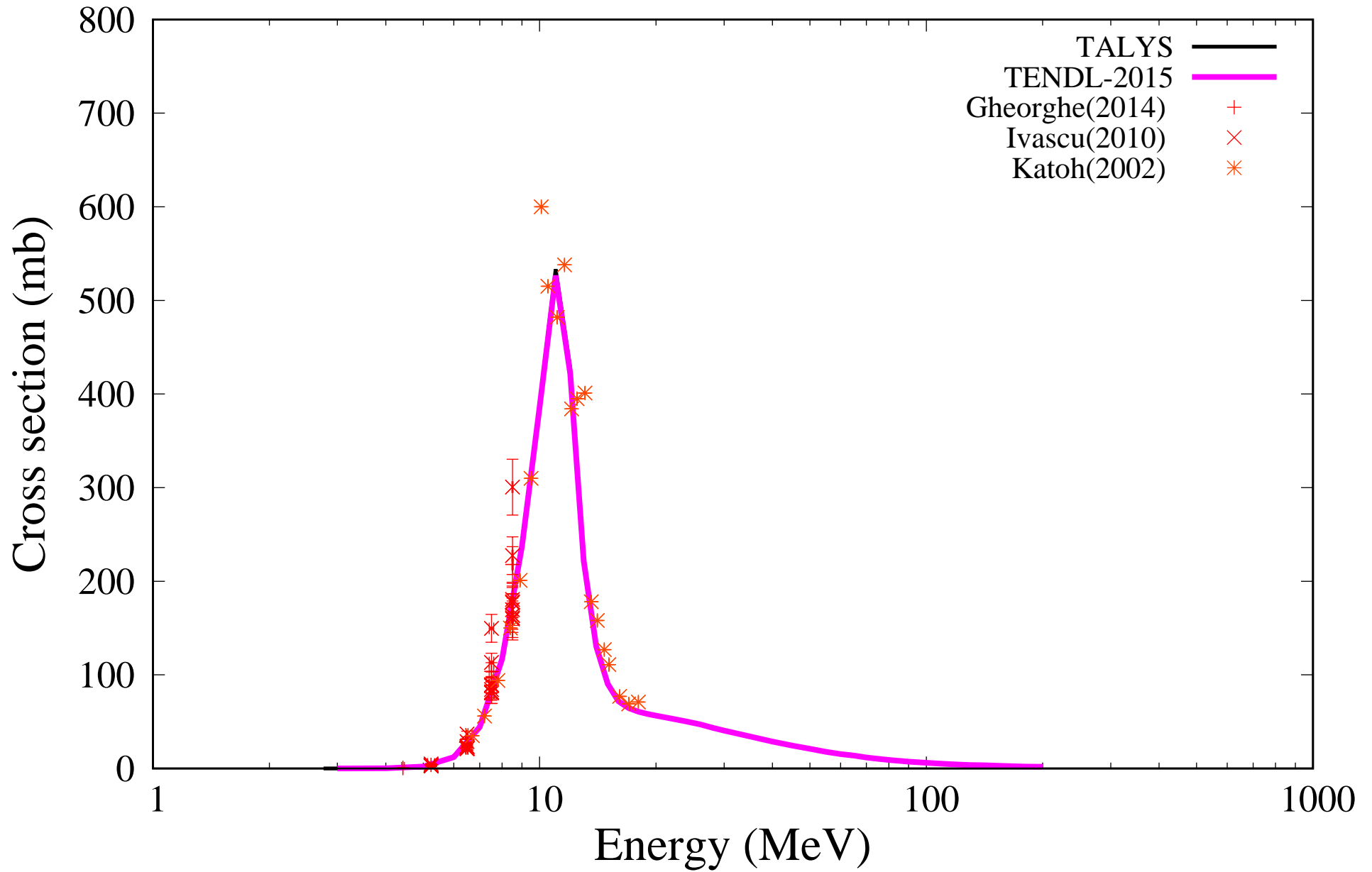
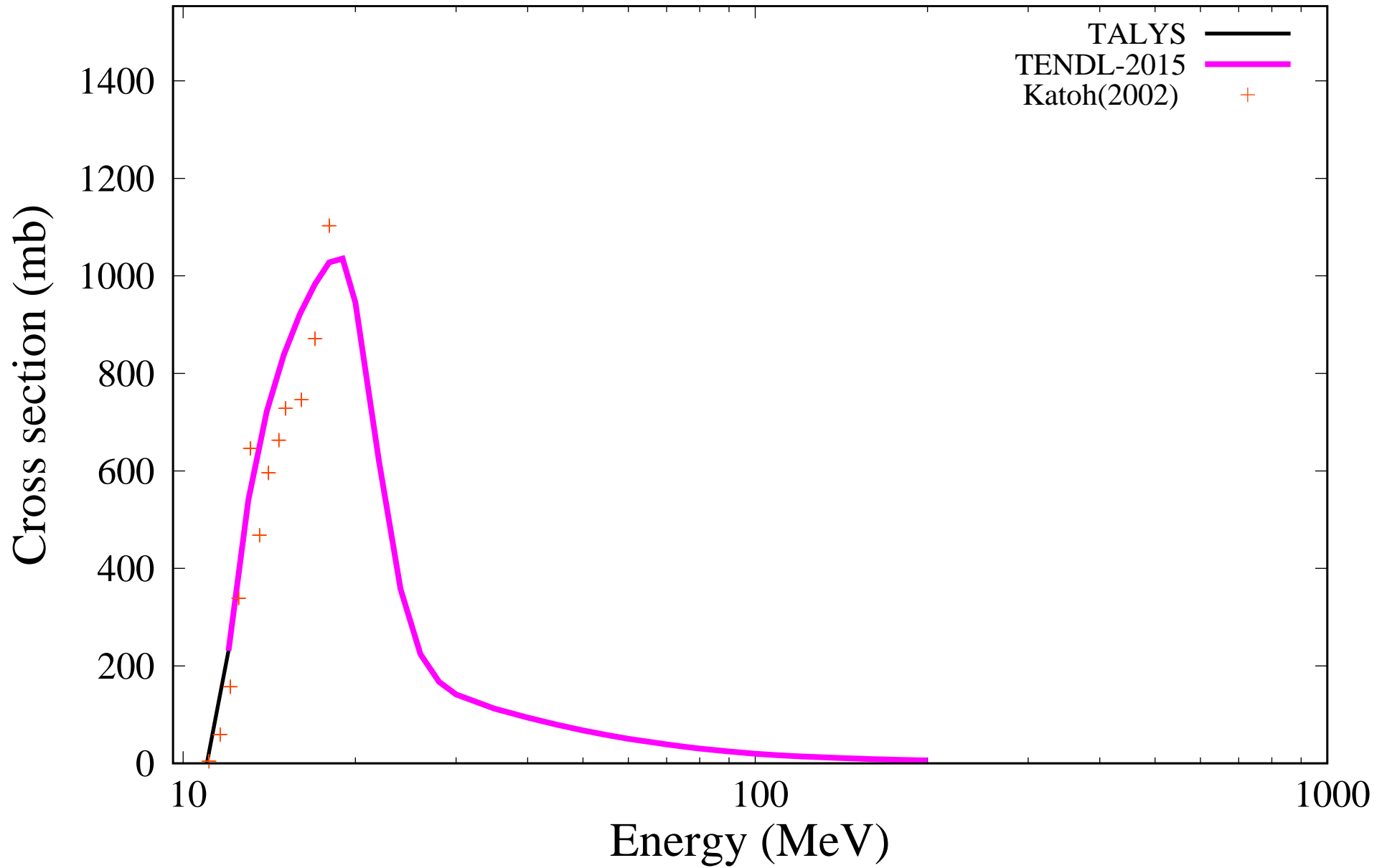


$^{147}\text{Sm}(p,n)^{147}\text{Eu}$ 

$^{147}\text{Sm}(p,2n)^{146}\text{Eu}$



$^{147}\text{Sm}(p,a)^{144}\text{Pm}$

