

TABLE I: Fermi-distribution parameters from Ref. [52]. “c” is the adjusted half-density radius for the charge distribution and “a” is the diffuseness parameter.

Target	^{112}Sn	^{114}Sn	^{116}Sn	^{118}Sn	^{120}Sn	^{122}Sn	^{124}Sn
$c(fm)$	5.3714	5.3943	5.4173	5.4391	5.4588	5.4761	5.4907
$a(fm)$	0.523	0.523	0.523	0.523	0.523	0.523	0.523

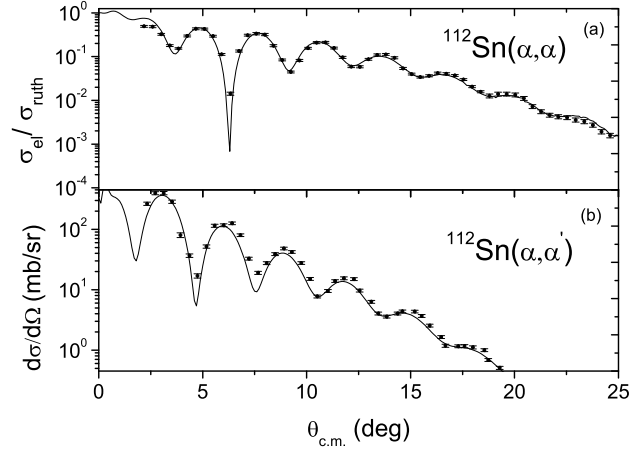


FIG. 4: (a) Ratio of the elastic α -scattering cross sections to the Rutherford cross sections for ^{112}Sn at 386 MeV. (b) Differential cross sections for excitation of the 2_1^+ state in ^{112}Sn . The solid lines are the results of the folding-model calculations.

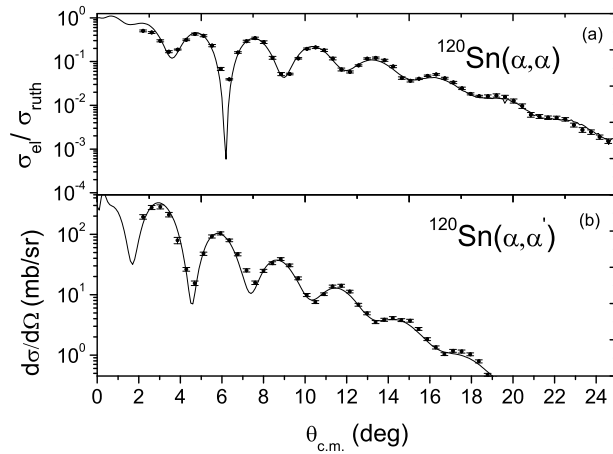


FIG. 5: Same as Fig. 4, except for ^{120}Sn .