

ANALYSIS OF INFLUENCE OF MODEL  
APPROXIMATIONS RELATED TO THE  
PHENOMENOLOGICAL NUCLEAR STRUCTURE  
ON NEUTRON-NUCLEUS SCATTERING

*I. E. Kashuba, I. A. Korzh, T. I. Yakovenko*

Scientific Center "Institute for Nuclear Research"  
Nat. Acad. of Sci. of Ukraine  
(*Prosp. Nauky, 47, Kyiv, 03022 Ukraine*)

S u m m a r y

The dependence of theoretically calculated cross sections of elastic and inelastic neutron scattering on selenium even-even isotopes is studied using different model assumptions about the structure of nuclei. It is shown that the nuclei under investigation may have static deformation, and collective vibration movements around the deformed soft rotator appear.