

# **INFLUENCE OF VIBRATION-ROTATION COUPLING IN A NUCLEAR STRUCTURE ON THE NEUTRON-NUCLEI SCATTERING CROSS SECTIONS**

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The dependence of theoretical cross sections of elastic and inelastic neutron scattering on nuclear structure model is studied for the even-even isotopes of selenium. It is shown that the nuclei under investigation may have static deformation while collective vibration motions appear around the deformed soft rotator.