

STUDY OF THE MECHANISMS OF INTERACTION
OF FAST NEUTRONS WITH ^{93}Nb NUCLEI

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S u m m a r y

The comparison and analysis of literary experimental data on the total cross-sections and scattering cross-sections of fast neutrons by ^{93}Nb nuclei are performed. The applicability of the optical-statistical approach version based on the spherical optical model (SOM), model of excited core (MEC), and statistical model (SM) for the description of experimental cross-sections of the interaction of neutrons with ^{93}Nb nuclei in the energy range 0.2 – 15 MeV is studied. The conclusion about the mechanism of elastic and inelastic neutron scattering by Nb nuclei in a broad range of energies is drawn from the adequate description of experimental data.