

# **STUDY OF FAST NEUTRON SCATTERING MECHANISM BY VANADIUM NUCLEI**

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Applicability of the optical-statistical approach variant based on the spherical optical model, method of the coupled channels, model of the excited core and modern variants of statistical model for the description of experimental total cross sections, elastic and inelastic scattering of neutrons by vanadium nuclei in energy range 0,2 - 20 MeV is investigated for the first time. The results of the theoretical analysis are used for research of fast neutron scattering mechanisms by vanadium nuclei.