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ANALYSIS OF THE PROTON AMPLITUDE OF SCATTERING ON THE BOUNDED NUCLEAR NUCLEONS BASING ON THE PROTON-NUCLEUS SCATTERING DATA

Tuesday 2 July 2024 15:00 (20 minutes)

The experimental data on the proton elastic and inelastic scattering at energies 200-1000 MeV on the nuclei ^{28}Si, ^{40}Ca, ^{58}Ni and ^{208}Pb are investigated using the microscopic optical potential model. Such potential is based on the proton-nucleon amplitude of scattering on the bounded nuclear nucleons. The obtained parameters of the amplitude are compared with those known from analysis of the proton scattering on the free unbounded nucleons.

Section

Experimental and theoretical studies of nuclear reactions

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