

**POLARIZATION PHENOMENA IN THE ELASTIC SCATTERING OF PROTONS ON
⁴He NUCLEI AND ENERGY DEPENDENCE OF p- α AMPLITUDE PARAMETERS**

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The parameterization of the elastic scattering amplitude of protons on ⁴He nuclei was proposed. Energy dependence of the parameters of this amplitude obtained from the comparison of the calculated and measured observable in the elastic p-⁴He scattering was presented. On the basis of the multiple diffraction scattering theory and the α -cluster model with dispersion by using of this parameterization of p- α amplitude the observable in the proton elastic scattering on ¹⁶O nuclei was calculated. The obtained results are in agreement with experimental data.