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Type: Oral talk (15 min + 5 min questions)

OPTICAL MODEL ANALYSIS OF PROTON ELASTIC SCATTERING ON 6Li NUCLEI WITH RESONANCE CONTRIBUTION

Tuesday, 12 July 2022 17:10 (20 minutes)

Optical model analysis [1] of proton elastic scattering on 6Li nuclei at proton energy from 50 keV to 185 MeV was continued with the use of the optical-model program code OptModel [2] taking into account the resonance contribution. Polarization data [3] in 1.21 to 3.22 MeV proton energy Ep range were added into set of the early used elastic scattering experimental data.

- 1. L.N. Generalov, V.A. Zherebtsov, S.M. Selyankina, Bull. Russ. Acad. Sci. Phys. 85. 1136 (2021).
- 2. L.N. Generalov, V.A. Zherebtsov, S.M. Taova, Bull. Russ. Acad. Sci. Phys. 80. 295 (2016).
- 3. C. Petitjean, L. Brown, R.C. Seyler, Nucl. Phys. A. 129. 209 (1969).

The speaker is a student or young scientist

Yes

Section

1. Experimental and theoretical studies of nuclear reactions

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Session Classification: Experimental and theoretical studies of nuclear reactions