K± SCATTERING FROM 6Li AND 12C NUCLE

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Abstract:

Optical potentials for the scattering of K± from 6Li and 12C nuclei are calculated using the Watanabe superposition model in terms of the alpha-particle and deuteron optical potentials. The elastic and inelastic scattering differential cross-sections obtained using these potentials are compared with experimental data. Good fits are obtained without modifying any of the parameters. Further measurements for K± scattering from 6Li are stressed.

Keywords:

Cluster model and nuclear structure; distorted wave models; collective models.

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