HYPERNUCLEI ${}^{3}_{\Lambda}H$ AND ${}^{6}_{\Lambda}He$ WITHIN TWO- AND THREE-CLUSTER MODELS: ELASTIC SCATTERING DIFFERENTIAL CROSS-SECTIONS

M. V. Evlanov, A. M. Sokolov, V. K. Tartakovsky

Using the formalism of two- and three-cluster models the differential cross-sections of elastic diffractive scattering of hypernuclei ${}^{3}_{\Lambda}H$ and ${}^{6}_{\Lambda}He$ on light and heavy nuclei taking into account the multiple scattering processes and nuclear edge diffuseness are calculated. The influence of hypernuclear structure, particular the projectile binding energy on the cross-sections behavior, is studied as well.