

ON THE DIFFRACTION ${}^3_{\Lambda}\text{Hp}$ -SCATTERING

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S u m m a r y

We derive the analytic expression for the elastic diffraction ${}^3_{\Lambda}\text{Hp}$ -scattering amplitude, which contains the interaction parameters of each hypertriton constituent with a proton in the explicit form. A necessity of taking the multiple cluster-nucleus scattering into account is shown. The strong dependence of the scattering differential cross-section on the binding energy B_{Λ} of the Λ -hyperon in a hypernucleus ${}^3_{\Lambda}\text{H}$ is discovered. This can be used as one more additional evaluation method to the existing ones and, possibly, as a refinement method for the binding energy of B_{Λ} .