

Strange light nuclei

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While normal nuclei consist of up and down quarks, hypernuclei contain strange quark in addition to them. Due to limitation of scattering data between hyperon and nucleon, study of hypernuclear structure has been providing precious information about hyperon-nucleon interaction.

In this decade, precise spectroscopy of Λ hypernuclei by the $(e,e'K^+)$ reaction has established at JLab. Recent measurement of binding energy of ${}^7_{\Lambda}\text{He}$ (a neutron halo nucleus ${}^6\text{He}$ plus Λ) by the $(e,e'K^+)$ reaction triggered discussion about charge symmetry breaking effect in the ΛN interaction [1].

I will review progresses of the $(e,e'K^+)$ reaction spectroscopy of hypernucleus and future prospect on the study of light hypernuclei.

[1] S.N.Nakamura et al., Phys. Rev. Lett. **110**, 012502 (2013);