

Structure of Ξ hypernuclei and ΞN interaction

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It is important to study ΞN interaction in hypernuclear physics. However, due to no ΞN scattering data, it is essential to study Ξ hypernuclei. Recently, we observed a Ξ hypernucleus, called as Kiso event, to have a bound state for the first time. From this data, we found that ΞN interaction should be attractive. In this conference, we discuss that what kind of ΞN interaction should be obtained from the data and in the future what kinds of Ξ hypernuclei we should have at J-PARC facility.

Primary author: Prof. HIYAMA, Emiko (RIKEN)

Presenter: Prof. HIYAMA, Emiko (RIKEN)

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