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Production of light Ξ-hypernuclei, 7ΞH

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Intense K^- beam at J-PARC will enable us to investigate strangeness -2 systems, namely Ξ -hypernuclei and double- Λ hypernuclei. In particular, the high-resolution S-2S spectrom ter will be a key ingredient for a systematic study of these systems by means of (K^-, K^+) reactions.

The J-PARC E75 experiment plans to produce ${}_{\Lambda\Lambda}^5$ H as a decay product of ${}_{\Xi}^7$ H. In the first phase, we will investigate the formation of ${}_{\Xi}^7$ H by the 7 Li(K^-, K^+) reaction.

We will report the outline of the E75 experiment.

Primary author: FUJIOKA, Hiroyuki (Tokyo Institute of Technology)

Presenter: FUJIOKA, Hiroyuki (Tokyo Institute of Technology)

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