

## Structure of light $\Xi$ hypernuclei

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One of the important research goal is to understand  $\Xi N$  interaction. For this purpose, at J-PARC, they are planning to produce several bound  $\Xi$  hypernuclei. In addition, it is requested to guide what kind of  $\Xi$  hypernuclei would be produce as bound state. Considering this situation, I report  $\Xi$  hypernuclei with  $A = 4$  to 10, that is,  $NNN\Xi$ ,  $\alpha\Xi N$ ,  $\alpha\Xi NN$ , and  $\alpha\alpha\Xi N$ , and what terms of  $\Xi N$  interaction we will obtain information on. Also, I discuss how we produce these  $\Xi$  hypernuclei at J-PARC.

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