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## **Influence of the isospin effects on the decay of $\Xi$ hypernuclei**

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This work is devoted to the investigation of the isospin structure and decays of  $\Xi$  hypernucleus. Since  $\Xi$  hyperon has two charge states the existence of  $\Xi$  hypernuclei with mixing charge of  $\Xi$  hyperons is possible. In the case of strong mixing states with pure isospin can occur, however generally isospin states are also mixed. The main purpose of this work is studying of charge and isospin mixing effects on the example of p-shell  $\Xi$  hypernuclei and dependence of these effects from characteristics of  $\Xi N$  interaction.

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