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## Charge symmetry breaking in hypernuclei within RMF model

We study the charge symmetry breaking (CSB) effect in the binding energy of mirror hypernuclei in the mass region  $A = 7 \sim 48$  in relativistic mean field (RMF) models introducing NN and  $\Lambda N$ 

interactions. The phenomenological  $\Lambda N$  CSB interaction is introduced and the strength parameter is fitted to reproduce the experimental binding energy difference between the mirror hypernuclei  ${}^{12}_{\Lambda}B$  and  ${}^{12}_{\Lambda}C$ . This model is applied to calculate the CSB energy anomaly in mirror hypernuclei with the mass  $A = 7 \sim 48$ . The model is further applied to predict the binding energy difference of mirror hypernuclei of A=40 with the isospin T = 1/2, 3/2 and 5/2 nuclei together with various hyper Ca isotopes and their mirror hypernuclei. Finally the binding energy systematics of A =48 hypernuclei are predicted with/without the CSB effect by the PK1 and TM2 energy density functionals (EDFs).

Primary author: Dr SUN, Ting-Ting (Zhengzhou University & RIKEN)

**Co-authors:** Prof. HIYAMA, Emiko (Tohoku University & RIKEN); Prof. SAGAWA, Hiroyuki (RIKEN & the University of Aizu); Dr TANIMURA, Yusuke (Soongsil University)

Presenter: Dr SUN, Ting-Ting (Zhengzhou University & RIKEN)

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