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Application of SMS chiral interactions to light hypernuclei

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Recently, a new generation of chiral hyperon-nucleon interaction has been developed [1]. In this contribution, I will discuss the properties of these interactions and apply them to light hypernuclei. A special focus will be put on using different chiral orders to obtain reliable uncertainty estimates [2].

[1] J. Haidenbauer, U.-G. Meißner, A. Nogga and H. Le,

Hyperon-nucleon interaction in chiral effective field theory at next-to-next-to-leading order, Eur. Phys. J. A 59 (2023), 63 [arXiv:2301.00722 [nucl-th]].

[2] H. Le, J. Haidenbauer, U.-G. Meißner and A. Nogga,

Separation energies of light Lambda-hypernuclei and their theoretical uncertainties, [arXiv:2308.01756 [nucl-th]].

Primary author: NOGGA, Andreas (IAS-4, Forschungszentrum Juelich)

Presenter: NOGGA, Andreas (IAS-4, Forschungszentrum Juelich)

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