Contribution ID: **24** Type: **not specified**

Application of SMS chiral interactions to light hypernuclei

Monday 9 October 2023 10:45 (30 minutes)

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)

Session Classification: Session I