

ROCKSTAR: Towards a Roadmap of the Crucial measurements of Key observables in Strangeness reactions for neutron sTARs equation of state

Contribution ID: 30

Type: **not specified**

(Hyper)nuclear Pionless Effective Field Theory at next-to-leading order: status and perspectives

Thursday 12 October 2023 12:00 (30 minutes)

Pionless Effective Field Theory at Leading order proved to be valuable approach in a study of different properties of s -shell Λ - and $\Lambda\Lambda$ - hypernuclei. Recently, it was demonstrated that the inclusion of next-to-leading order (NLO) corrections substantially improve predictive power of this theory in a theoretical study of few-body $A \leq 5$ nuclear scattering. In my talk I will review the corresponding nuclear results and show the status of preliminary hypernuclear calculations as well as its future perspectives.

Primary author: SCHAFFER, Martin (Nuclear Physics Institute of the CAS, Rez, Czech Republic)

Presenter: SCHAFFER, Martin (Nuclear Physics Institute of the CAS, Rez, Czech Republic)

Session Classification: Session VI