

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

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## Low-energy $K^-$ -nucleus/nuclei interactions with light nuclei with AMADEUS

*Wednesday 11 October 2023 10:00 (30 minutes)*

The AMADEUS Collaboration conducted research aimed to experimentally investigate the low-energy  $K^-$ -hadronic interactions with light nuclei like hydrogen, helium, and carbon, in order to provide new constraints to the antikaon-nucleon strong interaction studies in the non-perturbative QDC regime.  $K^-$  nuclear absorption, both at-rest and in-flight, are explored using the unique low-momentum and monochromatic kaon beam from the DAΦNE collider interacting with the KLOE detector components. I shall present an overview of the AMADEUS results.

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