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NREC - the Nuclear Radius Extraction Collaboration

Friday 12 September 2025 09:30 (30 minutes)

The characterization of size and structure of hadrons and nuclei has been the focus of a large work effort over multiple decades. Recently, this topic garnered new interest for various reasons, including the proton charge radius puzzle and advances in determinations of the gravitational form factors. The accurate extraction of quantities does not only rely on precise data, but also on well-developed analysis techniques.

NREC is a group of physicists from multiple fields interested in these topics, with the aim to facilitate the exchange of ideas, the development and dissemination of tested analysis methods and their application on published data, as well as the discussion of new results. The charter has been signed by more than 110 physicists from all over the world.

In the talk, I will discuss the physics motivation, our goals, and the current activities.

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