



NUSTAR monthly Seminar

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GSI / FAIR GmbH Darmstadt

<https://indico.gsi.de/event/24064/>

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Theory seminar room SB3 3.170a

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High-precision laser spectroscopy of radioactive isotopes

High-precision laser spectroscopy of radioactive isotopes Laser spectroscopy of radioactive isotopes is a workhorse in the investigation of nuclear ground-state properties, sharpening our knowledge and understanding of the nuclear force.

However, despite tremendous progress in this field in recent decades, a global understanding of the wide variety of nuclear phenomena observed among thousands of nuclei remains elusive. To overcome limitations in the production of exotic nuclei and restrictions due to the atomic structure of certain elements, new pathways in the field of laser spectroscopy of radioactive isotopes must be opened up. In this talk, I will first give a brief introduction into the field of laser spectroscopy of radioactive isotopes, and then I will focus on my experience and involvement in this field, including collinear laser spectroscopy of the lightest nuclei, recent progress towards laser spectroscopy of trapped radioactive isotopes, and first collinear laser spectroscopy at FAIR.

Convener: T. Dickel
Secretary: R. Krause
Organized by: T. Dickel