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Mass measurements and laser spectroscopy with radioactive beams - a FAIR perspective

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Advances in the production and manipulation of radioactive isotopes together with new innovations in optical spectroscopy and ion trap technique have resulted in a great progress in understanding of ground-state properties. The recent achievements pave the way for a study of ground-state properties of the most exotic nuclei, achievable only with the next generation facilities, like FAIR. In this presentation, examples of modern techniques and related scientific results will be given and an outlook for the research of ground-state properties at FAIR with MATS (Precision Measurements of very short-lived nuclei using an Advanced Trapping System for highly-charged ions) and LaSpec (Laser Spectroscopy of short-lived nuclei) will be discussed.

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