ISOLDE Workshop and Users meeting 2021



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Recent results of collinear laser spectroscopy of magic lead isotopes

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High-resolution collinear laser spectroscopy has been recently performed on a long sequence of lead (Z = 82) isotopes using the COLLAPS instrumentation at ISOLDE/ CERN. Hyperfine structures and isotope shifts have been measured and high-precision values of electromagnetic moments and isomeric differences in charge radii between the lowest 3/2, 5/2 and 13/2 states in 187-208Pb are extracted. The experimental trends will be compared to state-of-the-art calculations and discussed in the framework of nuclear structure.

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