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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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