Laser spectroscopy of muonic atoms and ions
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Ten years ago, our measurement of the Lamb shift in muonic hydrogen atoms yielded a proton rms charge radius which is 4I smaller than the value expected from the standard model. This discrepancy, known as the "proton radius puzzle", has been recently addressed by new measurements in muonic deuterium, helium-3 and helium-4, as well as a new measurement in regular hydrogen from Garching. I will present ongoing and planned measurements of the CREMA Collaboration targeting the (magnetic) Zemach radius of the proton (by means of the 1S hyperfine splitting), and the charge radii of other light nuclei.

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