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New perspectives in the charge radii determination for light nuclei

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The QUARTET experiment aims to improve the radii of light nuclei by an order of magnitude. To do so we employ a novel quantum sensing technology for photon energies—metallic magnetic calorimeters. We have taken data with enriched targets of 6Li, 7Li, 9Be, 10B and 11B with enough statistical accuracy to significantly improve their radii. In this talk I will show preliminary results from the ongoing analysis and discuss the needs from atomic and nuclear theory.

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