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Nuclear Physics Activities in Fundamental Symmetries and Astrophysics at Central Michigan University

Wednesday, 22 April 2026 11:40 (20 minutes)

The experimental nuclear physics program at Central Michigan University encompasses the pillars of low energy nuclear science, including applications to astrophysics, nuclear structure and fundamental symmetries. In this presentation we will describe the current research program at CMU and possibilities for future experiments that will combine the capabilities of the ARIEL facility and the existing state-of-the-art devices available at TRIUMF. Future experimental proposals will include precision mass measurements with the TITAN Penning trap and MR-TOF-MS, beta-decay lifetime measurements, and reaction cross-section measurements.

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