



Contribution ID: 394

Type: **Invited Presentation**

Results from Nuclear Structure Studies at FRIB

Wednesday 24 September 2025 11:00 (30 minutes)

There are approximately 300 stable and 3,000 known unstable (rare) isotopes. Estimates are that over 7,000 different isotopes are bound by the nuclear force. It is now recognized that the properties of many, sometimes undiscovered, rare isotopes hold the key to understanding how to develop a comprehensive and predictive model of atomic nuclei, to accurately model a variety of astrophysical environments, and to understand the origin and history of elements in the Universe. Some of these isotopes also offer the possibility to study nature's underlying fundamental symmetries and to explore new societal applications of rare isotopes. This presentation will give a glimpse of the opportunities that arise at the Facility for Rare Isotope Beams (FRIB) that started operations at Michigan State University in 2022, with a focus on results from nuclear structure studies.

A.G. is supported by the U.S. Department of Energy (DOE), Office of Science, Office of Nuclear Physics, under Award No. DESC0023633

Author: GADE, Alexandra (Facility for Rare Isotope Beams (MSU))

Presenter: GADE, Alexandra (Facility for Rare Isotope Beams (MSU))

Session Classification: Plenary Session

Track Classification: Nuclear Structure, Spectroscopy and Dynamics