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FRIB – Facility for Rare Isotope Beams¹

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FRIB, the planned “Facility for Rare Isotope Beams” at Michigan State University (MSU) will be a world-leading next generation rare isotope research facility. FRIB will be based on a 400 kW, 200 MeV/u driver linac and will provide a wide variety of rare isotope beams at unprecedented intensities. Upon completion, FRIB will create exciting opportunities for experiments with fast, stopped and reaccelerated beams. FRIB will make new classes of experiments in the nuclear structure and nuclear astrophysics areas possible. It will enable the experimental exploration of nuclear structure very far from stability and make information critical for the explanation of elemental abundances observed in the universe accessible. In addition, special isotopes in previously unavailable quantities will become available for studies of fundamental symmetries and for societal needs. This talk will present an overview of the planned FRIB facility and of the exciting science opportunities that FRIB will generate.

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