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Scientific Opportunities and Plans for FRIB[1]

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FRIB, the US's "Facility for Rare Isotope Beams" under construction at Michigan State University will be a world-leading rare isotope beam facility. FRIB will be based on a 400 kW, 200 MeV/u heavy ion linac and provide a wide variety of high-quality beams of unstable isotopes at unprecedented intensities, opening exciting research perspectives with fast, stopped, and reaccelerated beams. This talk will summarize the scientific opportunities with FRIB in the areas of nuclear science, nuclear astrophysics, and the test of fundamental interaction and symmetries, as well using isotopes from FRIB for societal benefits. Design features of FRIB and the status of the ongoing construction will be presented.

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