## APR18-2018-000615

Abstract for an Invited Paper for the APR18 Meeting of the American Physical Society

## FRIB Facility Goals, Status, and Plans<sup>1</sup>

JIE WEI, Michigan State Univ

The Facility for Rare Isotope Beams (FRIB) is a major new scientific user facility under construction on the campus of the Michigan State University in USA for nuclear science research with beams of rare isotopes. With a total construction cost of \$730 million, the project has passed the 80% complete mark and is managed toward early completion in 2021. FRIB is estimated to provide access to 80% of all isotopes of elements lighter than uranium. With an average beam power two orders of magnitude higher than operating heavy-ion facilities, FRIB stands at the power frontier of the accelerator family. This paper summarizes the goals, status of design, technology development, construction, and commissioning, as well as plans of operations and upgrades.

<sup>1</sup>Work supported by the U.S. Department of Energy Office of Science under Cooperative Agreement DE-SC0000661 and the National Science Foundation under Cooperative Agreement PHY-1102511.