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C3PL-01: The Facility for Rare Isotope Beams and the MSU Cryogenic Initiative

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The Facility for Rare Isotope Beams* is being designed and established by Michigan State University as a DOE Office of Science Scientific User Facility supporting the mission of the Office of Nuclear Physics. More than 90% complete, FRIB will provide world-leading research opportunities with rare isotopes in nuclear physics, nuclear chemistry, and the application of rare isotopes for society. Centered around a superconducting radio-frequency linear accelerator, operating at 2 K and capable of delivering 400 kW of beam power, and a fragment separator consisting of superconducting magnets operating at 4 K, FRIB is enabled by a large helium liquefaction plant, which will be discussed elsewhere at this meeting. To develop a work force in cryogenic engineering, FRIB and the MSU College of Engineering and College of Natural Science have started the MSU Cryogenic Initiative (www.frib.msu.edu/science/ase/cryogenic/).

*The design and establishment of FRIB is supported by the U.S. Department of Energy Office of Science under cooperative agreement DE-SC0000661, the State of Michigan, and Michigan State University.

Author: Dr GLASMACHER, Thomas (Facility for Rare Isotope Beams, Michigan State University)

Presenter: Dr GLASMACHER, Thomas (Facility for Rare Isotope Beams, Michigan State University)

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