

# High Power Targetry at FRIB

*Wednesday, 31 May 2017 14:00 (35 minutes)*

The Facility for Rare Isotope Beams (FRIB) currently under construction at Michigan State University will use a 400 kW primary ion beam from a superconducting radiofrequency accelerator for in-flight production of intense beams of radionuclides.

This presentation will give an overview of the design / concept and the challenges associated with high power density in the four main equipments impacted by beam in the Experimental System Area: the rotating graphite production target, the high power rotating beam dump based on a water filled drum made of Ti-alloy thin shell, the fragment catcher made of water cooled Al-alloy slits and Al-alloy wedge. This presentation will also discuss developments on how to mitigate some of the issues / challenges.

**Presenter:** Dr PELLEMOINE, Frederique (Michigan State University - Facility for Rare Isotope Beams)

**Session Classification:** Session 2: HPT R&D Methods & Routes