

# Isotopes and Applications

- Updates were presented from PRISMAP (EU), CARIBU-harvesting, Isotope Harvesting at FRIB, and NIOWAVE. All of these efforts are aimed at improving access to difficult-to-obtain radionuclides with a tie-in to taking advantage of existing capabilities.
- The need for  $t_{1/2}$  ~hours-weeks radionuclides in applications were touched on, particularly for nuclear data, EDM searches, medicine and stewardship science.
- The Isotope Harvesting at FRIB working group (a spinoff of the I&A group) will reconvene in the winter to discuss strategies/targets for day-one harvesting.
- Radioactive mass separators are a major component of the PRISMAP initiative. Similar technology could improve isotope production capabilities at labs in the US and elsewhere.
- 63 attendees

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## LECM 2020

This session is aimed at providing high-level descriptions of newly developing radionuclide production labs and some applications and/or experiments where new production methods are useful.

- Introduction- Greg Severin, Michigan State University **5min**
- PRISMAP overview – Mikael Jensen, Technical University of Denmark **10min**
- CARIBU Harvesting – Kay Kolos, Lawrence Livermore National Laboratory **10 min**
- FRIB Harvesting - Greg Severin, Michigan State University **10 min**
- Isotope Production at NIOWAVE – Bill Peters, NIOWAVE **10 min**
- Isotopes for EDM measurements – Jaideep Singh, Michigan State University **10 min**
- Zirconium-88 harvesting – Jennifer Shusterman, Hunter College CUNY **10 min**
- Vanadium-48 harvesting – Shaun Loveless, U of Alabama at Birmingham **10 min**
- Discussion- **15 min**

