

Abstract Submitted
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FRIB Decay Station – opportunities and challenges ROBERT GRZYWACZ, Univ of Tennessee, Knoxville, SEAN LIDDICK, Michigan State University, East Lansing, DAREK SEWERYNIAK, Argonne National Laboratory, NICHOLAS SCIELZO, Lawrence Livermore National Laboratory — A scientific program with a wide range of studies in nuclear structure, nuclear astrophysics, fundamental symmetries, and isotopes of importance to applications can be accomplished at FRIB with decay spectroscopy due to its sensitivity and selectivity. The FRIB Decay Station aims to perform experiments on the most exotic nuclei to probe the unknown parts of the chart of nuclei. A versatile multidetector array comprised of efficient, integrated detector subsystems for charged particles, gamma rays, and neutrons will comprehensively address the challenges and opportunities associated with the decays of very exotic nuclei, such as complex decay modes, large decay energies, short lifetimes and long decay chains.

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