

Abstract Submitted
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High-Resolution and -Efficiency Gamma-Ray Detection for the FRIB Decay Station HANNAH GROVER, KYLE LEACH, CONNOR NATZKE, Colorado Sch of Mines, FRIB DECAY STATION COLLABORATION COLLABORATION — As we push our knowledge of nuclear structure to the frontier of the unknown with FRIB, a new high-efficiency, -resolution, and -sensitivity photon-detection device is critical. The FRIB decay station collaboration is working to create a new detector array that meets the needs of the exploratory nature of FRIB by minimizing cost and maximizing efficiency. GEANT4 simulations are being utilized to combine detectors in various configurations to test their feasibility. I will discuss these simulations and how they compare to existing simulations of past-generation decay-spectroscopy equipment.

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