

Isomer Discoveries at FRIB with the FDSi Near $N=20$, 28, and 40

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The Facility for Rare Isotope Beams (FRIB) will provide unprecedented access to exotic nuclei; approximately 80% of the isotopes predicted to exist up to uranium ($Z = 92$) will be produced. The FRIB Decay Station initiator (FDSi), led by the FDSi Coordination Committee and supported by the FDSi Group and Working Groups, is the initial stage of the FRIB Decay Station (FDS).

A brief overview of the FDSi and first two years of operation at FRIB will be given [1,2,3,4]. Emphasis will be placed on new gamma-decaying isomers discovered near $N=20$, 28, and 40 during the first two years of operation. These isomers provide highly constrained structure possibilities for each region and important landmarks for future exotic beam studies. Implications for ^{60}Ca will be discussed.

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