

Beta-Decay Spectroscopy of ^{96,97,98,99}Kr

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The preferred oblate nuclear structure of the neutron-rich Kr isobaric chain at ground state is interrupted around $N = 60$ when the oblate deformation of Rb, Sr, Y, and Zr sharply transitions to prolate. Studying the beta-decay of Kr through gamma-ray spectroscopy at the Isotope Separator and Accelerator facility at TRIUMF will provide a deeper understanding of the nuclear structure of the Kr isobaric chain at $A = 96, 97, 98, 99$. This data was obtained during a discretionary beam time for the development of neutron-rich Kr beams while using the Gamma Ray Infrastructure For Fundamental Investigations of Nuclei (GRIFFIN) array alongside 11 beta particle scintillators.