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## Radioactivity of Rare Isotopes

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For me, one of the most exciting things about studying radioactive decays of rare isotopes is the wide variety of science questions that can be addressed. Precision measurements of nuclear beta decay can be used to constrain properties of the weak interaction and test the Standard Model of particle physics, delayed particle emission offers insight into unbound resonance states that are populated in explosive nuclear astrophysics, and gamma-ray emission is essential for elucidating the structure of the atomic nucleus and determining half-lives. In this talk, I will give an overview of our decay studies program at TRIUMF, which will include recent results obtained with GRIFFIN at ISAC-I and the goals for the upcoming Active Target and Time Projection Chamber (ACTAR TPC) campaign of experiments at ISAC-II.

### Keyword-1

Nuclear Physics

### Keyword-2

Radioactivity

### Keyword-3

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