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Opportunities for Decay Spectroscopy with ARIEL

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Beta-decay spectroscopy is a uniquely powerful probe, permitting often first experimental access to the excited states of exotic nuclei, but also a breadth of rich and detailed information when statistics permits. The experimental facilities at TRIUMF, combined with new beams delivered from ARIEL, are an exciting combination for future decay measurements. I will discuss some of the compelling physics topics decay spectroscopy can provide insights into, such as shell evolution and the impacts of weak binding, and focus on potential cases of interest enabled for study by ARIEL.

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