

**Speaker : Fred Sarazin**

**Beta-decay experiments at TRIUMF: present and future**

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Abstract

The study of beta-decay of halo nucleus  $^{11}\text{Li}$  was the first RIB experiment performed at the newly reconfigured 8PI spectrometer, an array of 20 Compton-suppressed Germanium detectors. Following the development of a more intense  $^{11}\text{Li}$  beam, the experiment was repeated more recently using an enhanced experimental setup comprising the 8PI and SCEPTAR, a plastic scintillator array located in the inner volume of the 8pi. Results from this experiment will be presented. Turning to the future, the development of new detector arrays such as DESCANT, the DEuterated SCintillator for Neutron Tagging, will open new exciting opportunities to study halo nuclei at both ISAC facilities. This will be discussed in the second part of the talk.