

# EXPERIMENTS WITH RADIOACTIVE ION BEAMS AND THE ORIGIN OF GALACTIC ALUMINUM-26

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The goal of understanding the production of galactic  $^{26}\text{Al}$  brings together progress in nuclear astrophysics from observations, theory, meteoritics, and laboratory experiments. In recent experimental work, significant progress has been made in light of new developments in unstable ion beam production at laboratories worldwide. Our group has recently studied several nuclear reactions at such facilities, including TRIUMF, RIKEN, and the NSCL, in order to probe both directly and indirectly the key reactions responsible for the synthesis of  $^{26}\text{Al}$  in stars. This presentation will discuss these experiments, their results, ongoing analysis, and astrophysical implications.