

Neutron deficient exotic nuclei and the Physics of the "proton rich side" of the nuclear chart



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Aluminum-26 nucleosynthesis with proton-rich exotic beams

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The goal of understanding the production of galactic Al-26 brings together progress in nuclear astrophysics from observations, theory, meteoritics, and laboratory experiments. In the case of experimental work, nuclear reactions involving unstable isotopes are being studied to elucidate the production of Al-26 in stellar explosive nucleosynthesis. This talk will discuss recent experiments carried out by our McMaster group to study such reactions with proton-rich radioactive ion beams at various laboratories worldwide (e.g., TRIUMF-ISAC, NSCL and CNS at RIKEN); in the process, it will also provide a survey of some of the different techniques currently used in laboratory experiments on the origin of the elements.

Summary

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