

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



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Explosive hydrogen burning studied with RIB

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With the perspective of the development of new intense radioactive beams of light proton-rich nuclei, I propose to go through several examples of experiments that can be performed and their astrophysical motivations (X-ray bursts, novae, gamma ray astronomy, meteorites). The important point is that direct measurement of nuclear reaction cross sections is certainly the most ambitious goal and the most necessary. Some alternative mechanisms of reaction, as the radiative capture of two protons, and exotic as the (p, γ) reaction producing an unbound nucleus, will also be discussed.

Summary

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