

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



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Exotic modes of excitations in neutron-deficient nuclei

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The evolution of low-energy isoscalar and isovector dipole strength in neutron-deficient nuclei is analyzed in a fully consistent mean-field plus QRPA framework. Model calculations performed for a series of proton-rich nuclei between $Z=18$ and $Z=28$, predict the occurrence of isoscalar low-energy dipole transitions (IS-LED) and, closer to the proton drip line, of proton pygmy dipole resonances.

Summary

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