

Perspectives from above and beyond the proton drip-line

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Abstract. This paper will review the dramatic increase in our knowledge of one and two proton unbound nuclei [1] such as recoil decay tagging [2] are revealing unique insights into the structure of nuclei beyond the proton drip-line. These studies of excited states provide complementary information to proton radioactivity studies, particularly regarding the role of deformation [3]. Radioactive beams are being used to study two-proton unbound resonances and to study explosive nuclear astrophysical reactions in the region of the proton drip-line.

Keywords. Proton drip-line; recoil decay tagging; one and two proton emission; radioactive beams; nuclear astrophysics.

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References

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