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Probing the structure of exotic nuclei with protons and antiprotons targets

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The study of exotic nuclei has triggered the development of innovative target and detection systems. Protons and antiprotons are unique structure probe. Protons can be used to study the spectroscopy of exotic nuclei via quasi-free scattering reactions. Antiproton annihilation at the nuclear surface can be used to probe neutron/proton density ratio, and therefore characterize halos and skins.

The possibility to use a thick proton target coupled to a vertex tracker to increase the luminosity has been successfully realised with the MINOS project. The use of antiprotons to probe the surface of exotic nuclei is the goal of the PUMA project. Both projects will be presented in this talk.

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