

Observing the neutron drip line

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The position of the drip lines is still uncertain, and its experimental determination is a problem of current interest. Whereas for protons, the limits of stability are known up to charges $Z= 83$, for neutrons, we only arrive to fluorine. The advent of future intense neutron rich radioactive ions beams will furnish a promising method to reach the neutron drip-line. Therefore, it is important to analyse in a theoretical perspective possible nuclear mechanisms capable of being observed. In the present talk, we discuss the possibility of observing decays by neutron emission in the region of the neutron drip line, and give estimative values for the corresponding half-lives.