

Study of nuclear halos and skin

Generally, in a nucleus, the number of protons and neutrons doesn't differ much. But recently, in some experiments where the no. of neutrons exceed the protons no. various new properties are discovered. When we see the nuclear landscape, particularly at neutron drip-line we see nuclear halos and skin. Like in case of $^{17-22}\text{N}$ or in oxygen atom with excess neutrons. In my talk I want to elaborate "Neutron skin and signature of the $N=14$ shell gap found from measured proton radii of $^{17-22}\text{N}$ "

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