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Structure of multi-neutron systems

Since 1960s, there have been many efforts to find $3n$ and $4n$ systems as resonant states. In Ref. [1], a sharp low energy peak has been observed. After this observation, it is important to explain this peak theoretically. Furthermore, to study $4n$ system, at RIKEN, $8\text{He}(p,2p)7\text{H}$ has been performed and analysis is on going. In this experiment, they also attempt to find super-heavy hydrogen system, 7H . In the seminar, I will give a talk on current theoretical situation on $4n$ system and recent work on 7H .

[1] Duer et al., Nature (London) 606, 678 (2022).

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