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Heavy Hydrogen isotopes: theory and experiments

I will present an experimental and theoretical review of the H isotopic chain going from the simple deuteron to the observed, but highly contested, ${}^7\text{H}$ which is probably the very last observable H state [1,2]. The difficulties in defining and extracting the resonance parameters of the unstable isotopes as well as the different theoretical approaches to compute them will be discussed.

- [1] R. Lazauskas, E. Hiyama, J. Carbonell, Phys. Lett. B 791 (2019) 335341
[2] E. Hiyama, R. Lazauskas, J. Carbonell, Phys. Lett. B 833 (2022) 137

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14h00*

IJCLab, Build. 100, Room A018