

Theory of light muonic atoms — Two-photon-exchange contributions to muonic hydrogen and deuterium

Friday 7 July 2023 11:00 (25 minutes)

I would like to discuss the theory of light muonic atoms, in particular, the two-photon-exchange polarizability contributions to the Lamb shift and hyperfine splitting in muonic hydrogen from baryon chiral perturbation theory and the two-photon-exchange contribution to the Lamb shift in muonic deuterium from pionless effective field theory. A focus will be on the ground-state hyperfine splitting in muonic hydrogen in view of future experiments.

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Session Classification: Atoms and Exotic Atoms II