

Finite nuclear mass correction to the hyperfine splitting in hydrogenic systems

Tuesday 11 June 2024 09:25 (25 minutes)

A general quantum electrodynamic method is presented, that allows to derive nuclear recoil corrections in hydrogenic systems, which are exact in the nuclear charge parameter $Z\alpha$. The exemplary derivation is demonstrated for the $O(m/M)$ nonradiative nuclear recoil correction to the hyperfine splitting.

Author: Prof. PACHUCKI, Krzysztof

Presenter: Prof. PACHUCKI, Krzysztof

Session Classification: Session 3