

# **QED field Hamiltonian decomposition**

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Decomposition of the field Hamiltonian for a loosely bound QED state is considered. It is demonstrated in the one-loop approximation that the so called quantum anomalous energy has wrong parametric dependence and therefore should not be included as a separate term in the QED field Hamiltonian [1].

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## **References**

- [1] M. I. Eides, “Hydrogen energy levels from the anomalous energy-momentum QED trace,” Phys. Rev. D **110**, no.7, 076020 (2024) doi:10.1103/PhysRevD.110.076020 [arXiv:2407.00089 [hep-ph]].