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On-shell derivation of QED finite-volume effects

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In this talk we present a derivation of power-like electromagnetic finite-volume effects to charged hadron masses and leptonic decay rates, which only relies on hadronic matrix elements evaluated on shell. We make comparisons with existing calculations in the literature and discuss, more in general, the status and prospects of lattice calculations of electromagnetic corrections to hadronic observables that make use of finite-volume massless photon actions.

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