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Finite-volume effects in HVP contribution to muon g-2

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The leading finite-volume corrections to the HVP contribution to the muonic (g-2) are related to the forward Compton amplitude of the pion in a completely model-independent fashion. The developed formalism is able to capture a few leading contributions, up to errors of order exp(-wML) where w~1.93 and M is the pion mass. By using models and chiPT for the forward Compton tensor, the finite-volume corrections are estimated for typical interesting volumes.

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