

# 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  $w \sim 1.93$  and  $M$  is the pion mass. By using models and  $\chi$ PT for the forward Compton tensor, the finite-volume corrections are estimated for typical interesting volumes.

**Primary author:** PATELLA, Agostino (Humboldt-Universität zu Berlin)

**Co-author:** HANSEN, Maxwell T.

**Presenter:** PATELLA, Agostino (Humboldt-Universität zu Berlin)

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