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Calculating the QED correction to the hadronic vacuum polarisation on the lattice

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Isospin-breaking corrections to the HVP component of the anomalous magnetic moment of the muon are needed to ensure the theoretical precision of $a_\mu - 2$ matches its experimental precision. To this end we describe the status of our work calculating, on the lattice, the QED IB correction to the light connected HVP. We report results using physical $N_f = 2 + 1 + 1$ HISQ ensembles at 3 lattice spacings and 3 heavier-than-light valence quark masses.

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