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Leading electromagnetic corrections to meson masses and the HVP

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We present a strategy to calculate the leading order electromagnetic corrections to meson masses and the hadronic vacuum polarization. These corrections are computed directly through a QED perturbative expansion of the QCD+QED correlation functions. We will show some first results obtained using $N_f = 2 + 1$ Domain Wall fermions. This calculation will be directly compared to the stochastic approach presented by James Harrison.

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