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Hadronic τ data and Lattice QCD+QED simulations for the muon $g - 2$

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Present tensions within data-driven estimates of the Hadronic-Vacuum-Polarization contribution to the muon anomalous magnetic moment, and additional tensions in the so-called intermediate window between dispersive and lattice calculations, are severely limiting our ability to test the Standard Model, with high precision. Investigating the role of hadronic τ decays as a different input to the dispersive approach is therefore becoming extremely timely. Using available experimental data, we present the current status of our determination of the intermediate window a_μ^W from τ data, and report our progress on the calculation of various sources of isospin-breaking effects, including radiative corrections.

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