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τ data-driven evaluation of Euclidean windows for the hadronic vacuum polarization

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We compute for the first time the τ data-driven Euclidean windows for the hadronic vacuum polarization contribution to the muon $g-2$. We show that τ -based results agree with the available lattice window evaluations and with the full result. On the intermediate window, where all lattice evaluations are rather precise and agree, τ -based results are compatible with them. This is particularly interesting, given that the disagreement of the $e+e-$ data-driven result with the lattice values in this window is the main cause for their discrepancy, affecting the interpretation of the a_μ measurement in terms of possible new physics.

session

K. Precision and New Physics

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