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Heavy quark masses and their impact on the muon $g-2$

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A determination of the heavy quark masses from combinations of QCD sum rules of the moments of the vector current correlator calculated in perturbative QCD are presented. Only experimental data for the resonance below the continuum threshold are needed in our approach, while the continuum contribution is determined by requiring self-consistency between various sum rules and the zeroth moment. As soon as the charm-quark and bottom-quark masses are determined, their individual impact on the Hadronic Vacuum Polarization contribution to the muon $g-2$ is also provided.

Collaboration

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