

XVth Quark Confinement and the Hadron Spectrum



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Dispersive determinations of lattice HVP window quantities for muon $g-2$

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We detail dispersive evaluations of various window quantities relevant to the determination of the HVP contribution to the anomalous magnetic moment of the muon in the Standard Model, and compare these to lattice evaluations of the same quantities. Of particular interest are the light-quark connected window quantities, where dispersive results obtained using data prior to the new CMD-3 2-pion cross-section results show sizeable discrepancies with lattice results. We also show that replacing the old 2-pion data with the CMD-3 in the region where the latter is measured removes all these discrepancies.

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