Erratum: Lattice calculation of the leading strange quark-connected contribution to the muon $g - 2$

The RBC/UKQCD collaboration

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We have identified two minor errors in our published manuscript, which have no bearing on our calculations or results.

In equation (3.2) the upper limit of the summation should be $n-1$ rather than $m-1$. The correct expression therefore is

$$R_{mn}\left(\hat{Q}^2\right) = \Pi_0 + \hat{Q}^2\left(\sum_{i=0}^{n-1}\frac{a_i}{b_i+\hat{Q}^2} + \delta_{mn}\,c\right), \qquad n = m, m+1\,. \tag{3.2}$$

In equation (3.1) there is a confusion of sign conventions when specifying $\Pi(Q^2)$. The correct expression is achieved by flipping the sign on $Q^2\Phi(Q^2)$, giving

$$\Pi(Q^2) = \Pi(0) + Q^2\Phi(Q^2), \qquad \Phi(Q^2) = \int_{4m_\pi^2}^{\infty}\mathrm{d}t\frac{\rho(t)}{t(t+Q^2)}\,. \tag{3.1}$$

We wish to emphasise that neither of these corrections change the nature of our calculations, the associated results, or the conclusions of our original manuscript: the first correction is merely typographical and the second is a transcription error.

Acknowledgments