

Erratum: Altermagnetic instabilities from quantum geometry [Phys. Rev. B **111, 174407 (2025)]**

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In the original paper, Eqs. (6) and (7) contain errors arising from an incorrect Matsubara summation and a typographical error in the derivation presented in Supplemental Material. These errors led to incorrect weighting factors for the band velocities and the quantum metric in Eqs. (6) and (7), respectively. The correct expressions are

$$\chi_{m:\text{velo}}^{0:\mu\mu} = 2 \int_{\text{BZ}} \sin^2 \theta(\mathbf{k}) F[E_1(\mathbf{k}), E_2(\mathbf{k})] \frac{v_{1,\mu}(\mathbf{k}) v_{2,\mu}(\mathbf{k})}{(E_1(\mathbf{k}) - E_2(\mathbf{k}))^2}, \quad (1)$$

$$\chi_{m:\text{geom}}^{0:\mu\mu} = \int_{\text{BZ}} (5 \cos^2 \theta(\mathbf{k}) - 2) F[E_1(\mathbf{k}), E_2(\mathbf{k})] g_{\mu\mu}. \quad (2)$$

We plot the corrected expressions in Fig. 1. Supplemental Material has been updated accordingly. These corrections do not affect any of the discussion or conclusions of the paper.

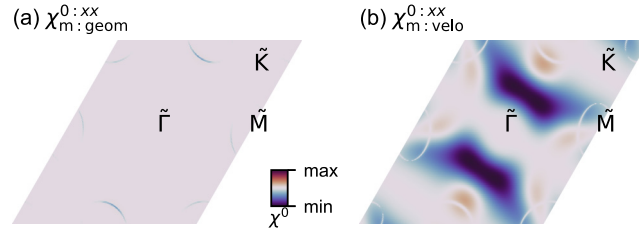


FIG. 1. (a) The geometric $\chi_{m:\text{geom}}^{0:xx}$ and (b) the velocity part $\chi_{m:\text{velo}}^{0:xx}$ of the generalized magnetic susceptibility of the normal state model at $\beta = 3.7$ close to the $\Gamma MK\Gamma$ plane.

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