Erratum: Charge Transport in Weyl Semimetals **[Phys. Rev. Lett. 108, 046602 (2012)]**

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(Received 24 June 2019; published 16 August 2019)

DOI: [10.1103/PhysRevLett.123.079901](https://doi.org/10.1103/PhysRevLett.123.079901)

This erratum corrects errors in numerical factors in Eqs. (1), (7), and (8), and the overall scale of the dc resistivity plotted in Fig. 2.

We recently discovered an algebraic error in Eq. (7), which led to incorrect numerical factors in Eqs. (1) and (8). The correct Eqs. (1), (7) and (8), respectively, are

$$\begin{aligned}\sigma_{\text{dc}} &= \frac{e^2}{h} \frac{k_B T}{\hbar v_F(T)} \frac{3^5 \zeta^2(3)}{2^3 \pi^4} \frac{1}{\alpha_T^2 \ln \alpha_T^{-1}} \\ &\approx \frac{e^2}{h} \frac{k_B T}{\hbar v_F(T)} \frac{0.45}{\alpha_T^2 \ln \alpha_T^{-1}}\end{aligned}\quad (1)$$

$$\begin{aligned}Q[k\xi(\omega)] &= -\frac{1}{4\pi^2} \left(i\omega[\xi(\omega)]^2 \frac{7\pi^4}{30} + [\xi(\omega)]^2 9\zeta(3) \right) \\ &\quad + \frac{N\pi}{9} [\xi(\omega)]^2 \alpha^2 \ln \alpha^{-1}\end{aligned}\quad (7)$$

$$\begin{aligned}\sigma(\omega) &= \frac{Ne^2}{h} \frac{k_B T}{\hbar v_F(T)} \frac{3^5 \zeta^2(3)}{2^3 \pi^4} \frac{1}{-\frac{21\pi}{40} i \frac{\hbar\omega}{k_B T} + N\alpha^2 \ln \alpha^{-1}} \\ &\approx \frac{Ne^2}{h} \frac{k_B T}{\hbar v_F(T)} \frac{0.45}{-1.65 i \frac{\hbar\omega}{k_B T} + N\alpha^2 \ln \alpha^{-1}}\end{aligned}\quad (8)$$

An error was also found in the overall scale of $\rho_{\text{dc}} = 1/\sigma_{\text{dc}}$ calculated from (1) and plotted in Fig. 2 of the Letter. With these corrections our theory underestimates ρ_{dc} of the samples in Ref. [12] of the Letter, which is understandable since the samples are polycrystalline while our theory specializes to single crystals. However, correcting both errors gives excellent agreement with recent experiments on $\text{Eu}_{0.96}\text{Bi}_{0.04}\text{Ir}_2\text{O}_7$ [1] for reasonable values of parameters, as shown in Fig. 1. Moreover, Ref. [1] finds $\rho_{\text{dc}}(T) \sim 1/T$, as predicted by our theory, only at low temperatures, which is where our theory is

FIG. 1. $\rho_{\text{dc}} = 1/\sigma_{\text{dc}}$ and α_T for the inset parameter values compared to experimental data from Fig. 3 of [1].

best applicable since it contains only Coulomb scattering but ignores phonon scattering. Thus, it is likely that the low-temperature transport in $\text{Eu}_{0.96}\text{Bi}_{0.04}\text{Ir}_2\text{O}_7$ is dominated by Coulomb scattering.

We thank Surjeet Singh and Prachi Telang for bringing the error in the computation of ρ_{dc} to our attention.

[1] P. Telang, K. Mishra, G. Prando, A. K. Sood, and S. Singh, [Phys. Rev. B **99**, 201112\(R\) \(2019\)](#).