Erratum: Spin Current Noise of the Spin Seebeck Effect and Spin Pumping [Phys. Rev. Lett. **120**, 037201 (2018)]

M. Matsuo¹, Y. Ohnuma², T. Kato³, and S. Maekawa⁴

(Received 4 August 2021; published 10 September 2021)

DOI: [10.1103/PhysRevLett.127.119902](https://doi.org/10.1103/PhysRevLett.127.119902)

In the discussion of the spin Hall angle in the Letter, the relation between I_C^{ISHE} and I_S ($\mathcal{S}_C^{\text{ISHE}}$ and $\mathcal{S}$) was incorrect. The correct relation is given as $I_C^{\text{ISHE}} = \theta_{\text{SH}} I_S$ ($\mathcal{S}_C^{\text{ISHE}} = \theta_{\text{SH}}^2 \mathcal{S}$). Accordingly, Eq. (17) should be corrected as

$$\theta_{\text{SH}} = \frac{\mathcal{S}_C^{\text{ISHE}} / I_C^{\text{ISHE}}}{\mathcal{S} / I_S}. \quad (1)$$

We should also state that the form of the dynamic spin susceptibility for a dirty metal [1,2] used in our work includes a mistake as pointed out in recent theoretical works [3,4]. The main results of the Letter are unchanged even after replacing the dynamic spin susceptibility with the correct one, though the spin current and spin-current noise are quantitatively changed.

- [1] H. Adachi, J.-I. Ohe, S. Takahashi, and S. Maekawa, *Phys. Rev. B* **83**, 094410 (2011).
- [2] M. Inoue, M. Ichioka, and H. Adachi, *Phys. Rev. B* **96**, 024414 (2017).
- [3] T. Kato, Y. Ohnuma, M. Matsuo, J. Rech, T. Jonckheere, and T. Martin, *Phys. Rev. B* **99**, 144411 (2019).
- [4] M. A. Silaev, *Phys. Rev. B* **102**, 144521 (2020).