

**Erratum: Magnetoelectric effect in superconductors with d -wave magnetization
[Phys. Rev. B **109**, L220505 (2024)]**Alexander A. Zyuzin 

(Received 2 October 2026; published 22 October 2026)

DOI: [10.1103/p91j-17jb](https://doi.org/10.1103/p91j-17jb)

In the published version of this Letter, there are typos in Eq. (10) and in the accompanying text. For

$$\Delta(\mathbf{r}) = |\Delta|e^{i\varphi(\mathbf{r})}, \quad (1)$$

the expression following from the preceding gradient expansion of the spin-polarization density Eq. (9) should read

$$S_z(\mathbf{r}) \propto -\beta(\partial_x\varphi)(\partial_y\varphi) - \gamma[(\partial_x\varphi)^2 - (\partial_y\varphi)^2]. \quad (2)$$

The terms containing second spatial derivatives of the phase, $2\partial_{xy}^2\varphi$ and $2(\partial_x^2\varphi - \partial_y^2\varphi)$, were incorrectly included in the published Eq. (10). The statement immediately preceding Eq. (10) should consequently read that the spin polarization is quadratic in the gradients and d -wave symmetric. We emphasize that these corrections do not affect any of the other results, analyses, or conclusions presented in the original Letter.

We thank Tim Kikkeler, Ilya Tokatly, and Sebastian Bergeret for pointing out this typo in the first version of the manuscript. We also acknowledge their related work [1].

-
- [1] T. Kikkeler, I. Tokatly, and F. S. Bergeret, Quantum transport theory for unconventional magnets: Interplay of altermagnetism and p -wave magnetism with superconductivity, [SciPost Phys.](#) **18**, 178 (2025).