

Erratum: Photonic spin Hall effect in $\mathcal{PT}$ -symmetric non-Hermitian cavity magnomechanics **[Phys. Rev. A **113**, 033524 (2026)]**

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In our original article, the mathematical expression for the photonic spin Hall effect (PSHE) was given by

$$\delta_p^\pm = \mp \frac{k w_0^2 \text{Re} \left[1 + \frac{r^s}{r^p} \right] \cot \theta_i}{k^2 w_0^2 + \left| \frac{\partial \ln r^p}{\partial \theta_i} \right|^2 + \left| \left(1 + \frac{r^s}{r^p} \right) \cot \theta_i \right|^2}, \quad (1)$$

where $k = \sqrt{\epsilon_1} k_0$, ϵ_1 is the permittivity of mirror M_1 , k_0 the vacuum wave number, w_0 the beam waist, θ_i the incidence angle, and r^p (r^s) the Fresnel reflection coefficient for the p - (s)-polarized probe field.

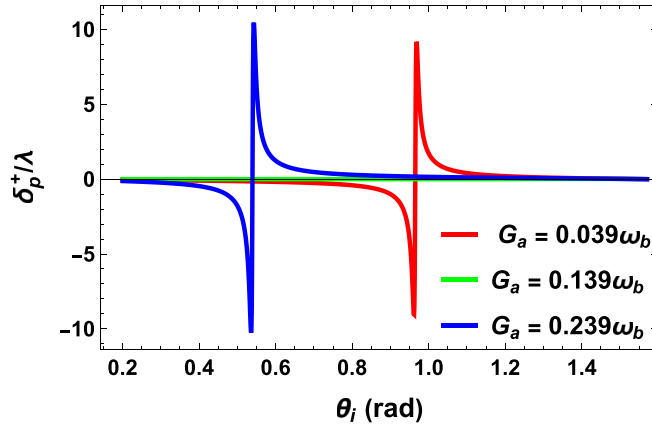


FIG. 6. Corrected Fig. 6 corresponding to the original paper.

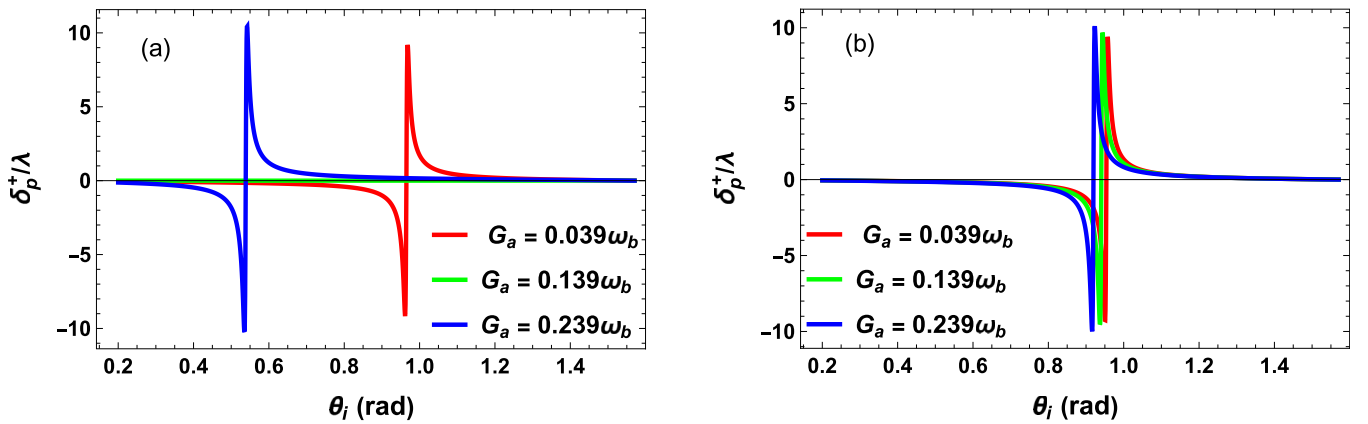


FIG. 7. Corrected Fig. 7 corresponding to the original paper.

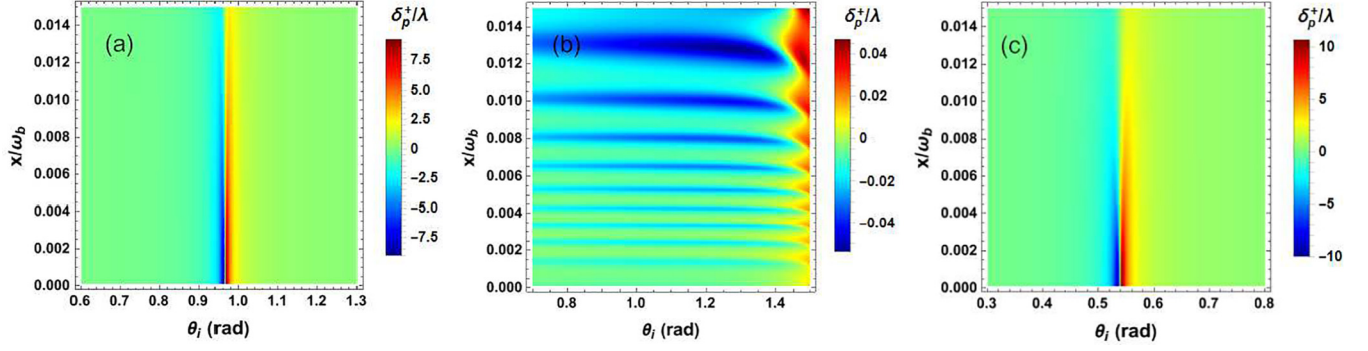


FIG. 8. Corrected Fig. 8 corresponding to the original paper.

In the numerical implementation of Eq. (1), we inadvertently used k instead of k^2 in the denominator. This implementation error has been corrected, and all corresponding results have been recalculated.

The corrected calculation reduces the magnitude of the PSHE, while the qualitative features and resonance positions remain unchanged. Therefore, this error does not affect the main conclusions of the original article.

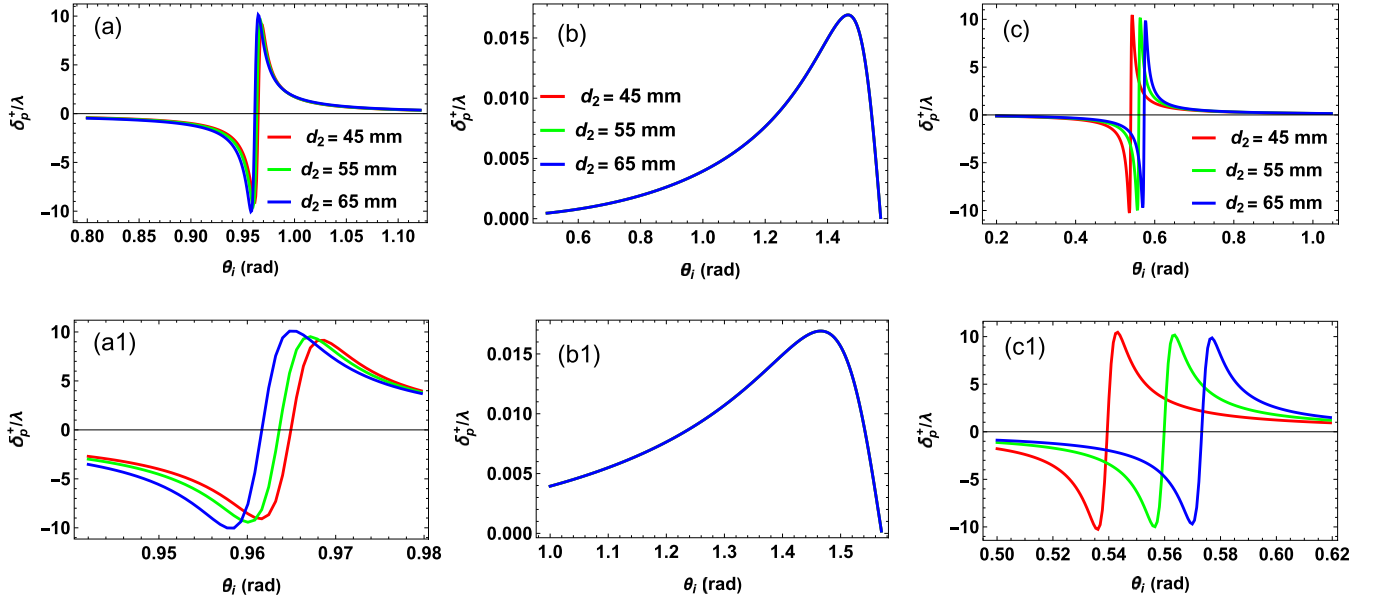


FIG. 9. Corrected version of Fig. 9. Panels (a1), (b1), and (c1) provide magnified views of the broken $\mathcal{PT}$ phase, EP₃, and unbroken $\mathcal{PT}$ phase, respectively.