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Measuring the dynamics of circular dichroism in a pump–probe experiment with a Babinet–Soleil compensator: erratum

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The calculation in Ref. 1 utilized the Jones matrix formalism developed in Ref. 2. Unfortunately, there has been a confusion in the definition of the right- and left-handed polarization of light, which results in a sign error in the formulas of Ref. 1. With the usual definition of the circular dichroism given in Eq. (3), η should be replaced by −η in all the subsequent equations. The same is true for Δη. In particular, Eq. (8) should read

\[ I_{\text{out}} = e^{-\Delta L} \left[ \left( \frac{\epsilon - \delta}{2} \right)^2 + \left( X - \frac{\eta}{4} \right)^2 \right], \quad (1) \]

and Eq. (18) should read

\[ LI = -\Delta \alpha LZ^2 - \frac{1}{2} \Delta \eta Z + K_8. \quad (2) \]

The signs of the experimental values of η and Δη measured in the article are nevertheless correct.

A typo also occurred in Eq. (15), which should read

\[ Z = Y - \frac{\Delta \eta e^{-\Delta \alpha L}}{4(e^{-\Delta \alpha L} + 1)}. \quad (3) \]

REFERENCES