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Claire Niezborala, François Hache

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

Claire Niezborala and François Hache
Laboratoire d’Optique et Biosciences, Ecole Polytechnique-CNRS-INSERM-91128 Palaiseau cedex, France

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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), \( \eta \) should be replaced by \(-\eta\) in all the subsequent equations. The same is true for \( \Delta \eta \). In particular, Eq. (8) should read

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

and Eq. (18) should read

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

The signs of the experimental values of \( \eta \) and \( \Delta \eta \) measured in the article are nevertheless correct.

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

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

REFERENCES