Erratum: Third-order nonlinearity of graphene: Effects of phenomenological relaxation and finite temperature [Phys. Rev. B **91, 235320 (2015)]**

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We have become aware (see the discussion in Ref. [1]) of a sign error in the third term in Eq. (25). The correct equation reads

$$\mathcal{S}_7(\vartheta, \vartheta_0) = \mathcal{H}_\mu(\vartheta_0) \left(\frac{A_2}{\vartheta_1^2} - \frac{A_3}{\vartheta_0 \vartheta_1} \right) + \mathcal{H}_\mu(\vartheta) \left(\frac{A_3}{\vartheta \vartheta_1} - \frac{A_2}{\vartheta_1^2} \right) - \mathcal{I}_\mu(\vartheta) \frac{A_2}{\vartheta_1} + \frac{1}{|\mu|} \frac{A_3}{\vartheta \vartheta_0}, \quad (25)$$

The error is purely typographical. All the results and discussions in the paper are based on the correct equation.

[1] S. A. Mikhailov, Quantum theory of the third-order nonlinear electrodynamic effects of graphene, [arXiv:1506.00534](https://arxiv.org/abs/1506.00534).