

Erratum: “Temperature dependence of atomic vibrations in mono-layer graphene” [J. Appl. Phys. 118, 074302 (2015)]

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Erratum: “Temperature dependence of atomic vibrations in mono-layer graphene” [J. Appl. Phys. **118**, 074302 (2015)]

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In our recent publication,¹ the value of $k_D = 7.6 \times 10^9 \text{ m}^{-1}$, which we quote for the Debye-wave vector for acoustic flexural phonons in mono-layer graphene, was incorrect. The correct value is $k_D = 1.65 \times 10^{10} \text{ m}^{-1}$. It is this latter value which was used in the fit to equation (7) shown in Figure 7.

In our derivation of the mean square atomic displacement for acoustic flexural phonons in mono-layer graphene presented in the supplementary material, there is an erroneous factor of $1/2$ in the first equation. This should correctly read as follows:

$$u_z^2 = \frac{1}{N} \sum_{\mathbf{k}, s} \langle (u_s(\mathbf{k}))^2 \rangle.$$

This erroneous factor of $1/2$ does not propagate through the rest of the derivation.

In the supplementary material, Ref. 32 should be Ref. 25 and Ref. 33 should read as

“(see, for example, M. P. Marder, *Condensed Matter Physics*, 2nd ed. (Wiley-Blackwell, Hoboken, NJ, 2010)).”

We thank Dr. T. Susi and Dr. J. Kotakoski for drawing our attention to these mistakes.

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