Solving Eq. (A.27) self-consistently with Eq. (A.21), it is easy to get the effective harmonic constant

$$f = K + 3\lambda\gamma_c^2 = \frac{K + \sqrt{K^2 + 12\lambda K_B T}}{2}. \tag{A.29}$$

---

[1] S. Lepri, R. Livi, and A. Politi, Phys. Rep. **377**, 1 (2003).

[2] Z. Rieder, J. L. Lebowitz, and E. Lieb, J. Math. Phys. **8**, 1073 (1967).

[3] N. Li, P. Tong, and B. Li, Europhys. Lett. **75**, 49 (2006).

[4] N. Li and B. Li, Europhys. Lett. **78**, 34001 (2007).

[5] N. Li and B. Li, Phys. Rev. E **76**, 011108 (2007).

[6] B. Hu, D. He, L. Yang, and Y. Zhang, Phys. Rev. E **74**, 060101(R) (2006).

[7] G. P. Srivastava, *The Physics of Phonons* (IOP Publishing Ltd, Bristol, 1990).

[8] S. Lepri, Phys. Rev. E **58**, 7165 (1998).

[9] S. Lepri, R. Livi, and A. Politi, Europhys. Lett. **43**, 271 (1998).

[10] P. Brüesch, *Phonons: Theory and Experiments I*, Lattice Dynamics and Models of Interatomic Forces (Springer-Verlag, New York, 1982).

[11] T. Dauxois, M. Peyrard, and A. R. Bishop, Phys. Rev. E **47**, 684 (1993).

[12] C. Alabiso, M. Casartelli, and P. Marenzoni, J. Stat. Phys. **79**, 451 (1995).

[13] C. Alabiso and M. Casartelli, J. Phys. A **34**, 1223 (2001).

[14] K. Aoki and D. Kusnezov, Phys. Rev. Lett. **86**, 4029 (2001).

[15] K. Giannò, A. V. Sologubenko, H. R. Ott, A. D. Bianchi, and Z. Fisk, J. Phys.: Condens. Matter **15**, 6739 (2003).

[16] D. G. Cahill, W. K. Ford, K. E. Goodson, G. D. Mahan, A. Majumdar, H. J. Maris, R. Merlin, and S. R. Phillpot, J. Appl. Phys **93**, 793 (2003).

[17] R. E. Peierls, *Quantum Theory of Solids* (Oxford University Press, London, 1955).

[18] J. Hone, M. Whitney, C. Piskoti, and A. Zettl, Phys. Rev. B **59**, R2514 (1999).

[19] M. S. Dresselhaus and P. C. Eklund, Adv. Phys. **49**, 705 (2000).

[20] D. G. Cahill, K. Goodson, and A. Majumdar, J. Heat Transfer **124**, 223 (2002).

[21] R. P. Feynman and H. Kleinert, Phys. Rev. A **34**, 5080 (1986).

[22] H. Kleinert, *Path Integrals in Quantum Mechanics, Statistics, and Polymer Physics* (World