

Erratum: Nagel Scaling, Relaxation, and Universality in the Kinetic Ising Model on an Alternating Isotopic Chain [Phys. Rev. Lett. 84, 1507 (2000)]

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Because of a mistake in the computation of the full width at half height, the Nagel plots reported in Figs. 1–3 are incorrect. The correct Nagel plots for the cases discussed in these figures are given below.

Since the qualitative behavior of the correct results is not exactly the same as that of the former ones, some of the conclusions must also be corrected. To begin with, the results for $\alpha_1 = \alpha_2 = 1$ (uniform chain) and different temperatures all fall in the same curve in the Nagel plot as they should. Further, the curve for the case $\alpha_1 = 1, \alpha_2 = 2$ is very close to that of the uniform chain. Plateau regions still appear when the two time scales are widely separated (case $\alpha_1 = 1, \alpha_2 = 1000$), but the overlap of the curves corresponding to different temperatures is not as sharp as it was before. Nevertheless, the improvement of the scaling as the difference in the time scales is increased still holds.

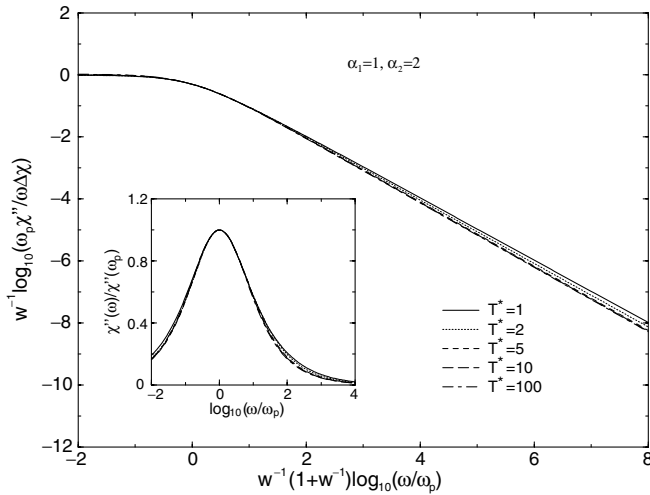


FIG. 1. Nagel plot for $\alpha_1 = 1$ and $\alpha_2 = 2$ and for $T^* = 1, 2, 5, 10,$ and 100 . There is reasonable agreement with the scaling form for this choice except for low T^* . The inset contains the plot of $\chi''(\omega)/\chi''(\omega_p)$ vs $\log_{10}(\omega/\omega_p)$ in order to test the Debye-like behavior.

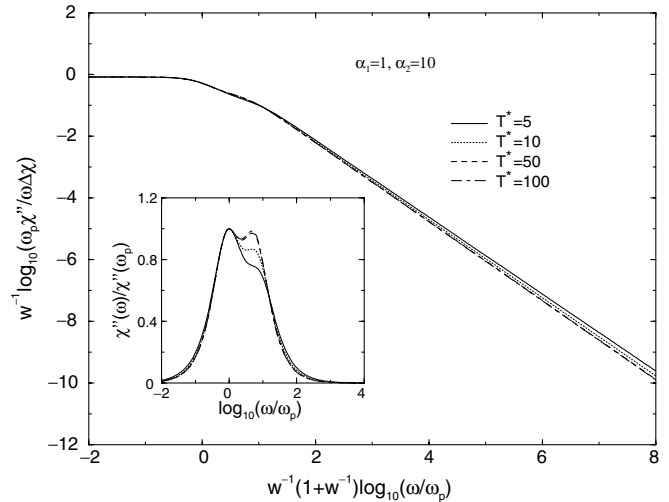


FIG. 2. The same as Fig. 1 but with the choice $\alpha_1 = 1, \alpha_2 = 10,$ and $T^* = 5, 10, 50,$ and 100 . The improvement in the agreement with the Nagel scaling is rather noticeable, while the opposite trend is observed with respect to the Debye scaling.

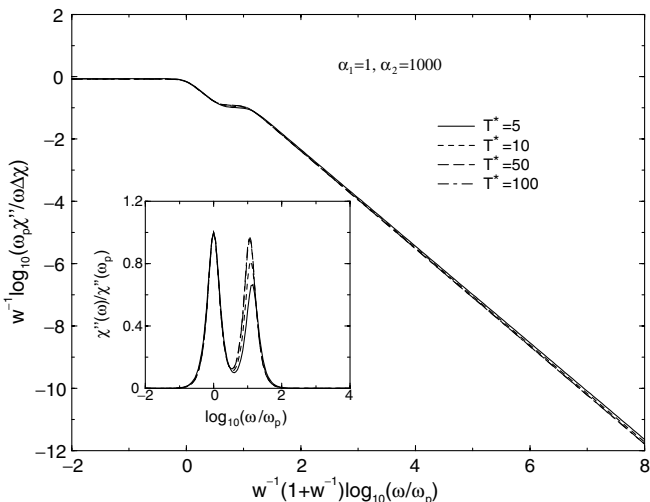


FIG. 3. The same as Figs. 1 and 2 but for $\alpha_1 = 1, \alpha_2 = 1000,$ and $T^* = 5, 10, 50,$ and 100 . A plateau region in the Nagel plot is clearly present in this case. Here, the behavior is definitely non-Debye.