

**Erratum: Vortex depinning frequency in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting thin films:
Anisotropy and temperature dependence
[Phys. Rev. B 50, 470 (1994)]**

M. Golosovsky, M. Tsindlekht, H. Chayet, and D. Davidov

In Eq. (10) α should be replaced by α_{\max} . Equation (11) should read

$$\omega_0 = \frac{\beta(t)\rho_n}{16\pi\mu_0\lambda^2} \approx \frac{\beta(t)n_s(t)}{16\pi\tau(t)n_0}. \quad (11)$$

The factor 2 is omitted in Eq. (6b). As a consequence, the factor 2 is extraneous in Eq. (7a). The corrected equations should read

$$Q^{-1} = 2 \operatorname{Im} \left[\frac{\lambda}{s} \coth \left(\frac{d}{\lambda} \right) \right], \quad (6b)$$

$$R_s = \pi\mu_0 s f Q^{-1}, \quad (7a)$$

$$X_s = 2\pi\mu_0 s \Delta f. \quad (7b)$$

Accordingly, the following changes should be made in the paper. The values of X_s in Fig. 3(a) should be multiplied by 2 and the values of $\operatorname{Im}(\lambda^2)$ in Fig. 4(a) should be multiplied by 0.5. In Fig. 5(a) the values of ω_0 should be multiplied by 2, the values of α should be multiplied by 1.33, and the values of η should be multiplied by 0.67. Figure 6 is replotted accordingly. None of the physical consequences change.

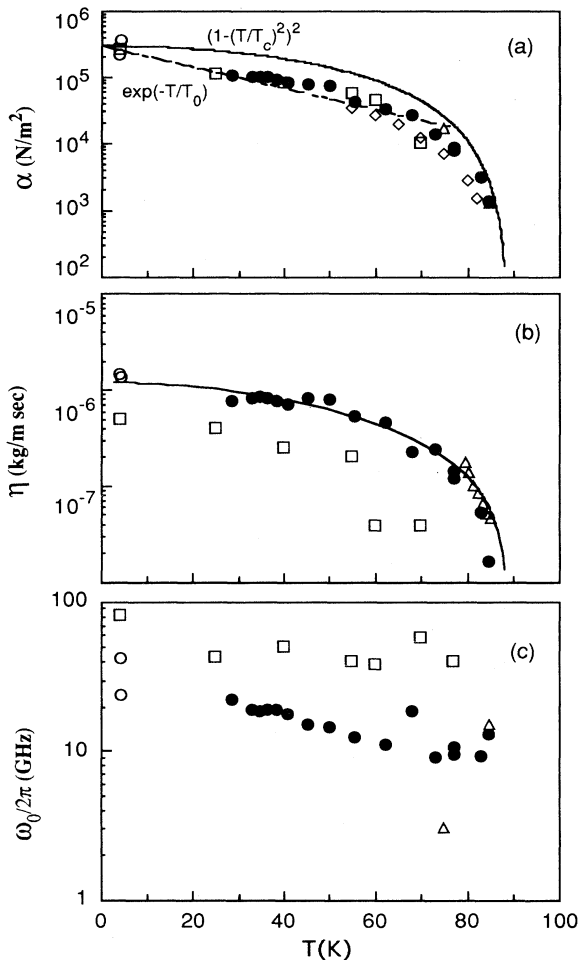


FIG. 6. Temperature dependence of the (a) pinning constant α , (b) viscosity η , and (c) depinning frequency ω_0 for $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $H\parallel c$. ●—present experiment (thin films, $f = 5.5$ GHz, $0.1 \text{ T} < H < 0.8 \text{ T}$), □—Pambianchi *et al.* (Ref. 11) (thick films, $f = 11$ GHz, $H \leq 0.35 \text{ T}$), ◇—Hebard *et al.* (Ref. 13) (thin films, $f = 1.25$ kHz, $1 \text{ T} < H < 14 \text{ T}$), △—Owliaei *et al.* (Ref. 8) (thin films, $f = 10$ GHz, $H < 8 \text{ T}$), ○—Revenaz *et al.* (Ref. 12) (stripline, $f = 1-20$ GHz, $H < 5 \text{ T}$). The solid curved line in (a) demonstrates the approximation $\alpha(t) = 3 \times 10^5 [1 - (T/T_c)^2]^2$ (N/m²) with $T_c = 89$ K, while the dashed straight line demonstrates the exponential dependence $\alpha(t) = 3 \times 10^5 \exp(-T/T_0)$ (N/m²) with $T_0 = 27$ K. The solid line in (b) demonstrates the approximation $\eta(t) = 1.2 \times 10^{-6} (1 - t^2)/(1 + t^2)$ (kg/m sec), where $t = T/T_c$ and $T_c = 89$ K.