Errata

Erratum: Polaron effective mass in GaAs heterostructure [Phys. Rev. B 27, 2590 (1983)]

S. Das Sarma

Equations (6) and (7) in this paper have a factor of $[x/(x+\gamma)]$ missing from the integrands. The correct integrands should be

$$I_0=\frac{1}{4\pi}\int_0^\infty dx\,\frac{x^2(8\beta^3+9\beta^2x+3\beta x^2)}{(1+x^2)(x+\gamma)^2(x+\beta)^3}\ , \tag{6}$$

and

$$I_2=\frac{2}{\pi}\int_0^\infty dx\,\frac{x^4(8\beta^3+9\beta^2x+3\beta x^2)}{(1+x^2)^3(x+\gamma)^2(x+\beta)^3}\ . \tag{7}$$

The qualitative conclusions of the paper are unchanged and the actual polaronic corrections for GaAs are $\epsilon_r=0.1$ and $\Delta M_r=0.4$ at $N_s=10^{11}\ \mathrm{cm}^{-2}$.

Erratum: Electron mobility in modulation-doped heterostructures [Phys. Rev. B 30, 4571 (1984)]

W. Walukiewicz, H. E. Ruda, J. Lagowski, and H. C. Gatos

The equation following Eq. (A4) was incorrectly printed. It should read as follows:

$$\frac{1}{\tau_b^0}=\frac{4C_0N_i^b}{b_0k^2}\int_{0.5-x_k}^{0.5}\frac{F(x)(1-2x)}{[x_k^2-(0.5-x)^2]^{1/2}}dx\ . \tag{A5}$$