Errata

Erratum: Nonadiabatic transport in finite systems. I. Formal theory [Phys. Rev. B 45, 11 595 (1992)]

Mathias Wagner

There is an important error in the last sentence of the paragraph before Eq. (1). The sentence should read as follows: In essence, the result is that the *order* is important, in which the steady state is calculated, and a linearization with respect to the disturbance is made.

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Erratum: Nonadiabatic transport in finite systems. II. Magnetotransport in a quasi-one-dimensional channel [Phys. Rev. B 45, 11 606 (1992)]

Mathias Wagner

A typographical error occurred in Eq. (A10). The Θ function on the first line should read $\Theta(t'-t)$ and the one on the second line should read $\Theta(t-t')$.

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Erratum: Electrostatics of edge channels [Phys. Rev. B 46, 4026 (1992)]

D. B. Chklovskii, B. I. Shklovskii, and L. I. Glazman

We mistakenly assumed that $\hbar\omega_c$ should be substituted by the quasiparticle energy gap Δ_f ($f=p/q$) in order to generalize our theory to the fractional quantum Hall regime. Instead, one should substitute $\hbar\omega_c$ by the gap in the electron chemical potential $\Delta\mu_f=q\Delta_f$. Thus, Eq. (36) should read

$$a_f = \left[\frac{4\epsilon q \Delta_f}{\pi^2 e^2 dn/dx|_{x=x_f}} \right]^{1/2} = \frac{4(2qc_f)^{1/2}}{\pi^{1/2}} \frac{v_0 f^{1/2}}{v_0^2 - f^2} (\lambda l)^{1/2}.$$

Consequently, the widths of incompressible strips become bigger than estimates (40) and (41) in our paper. Corrected estimates are

$$a_{1/3} = 350 \text{ \AA} = 3.8\lambda, \quad a_{2/3} = 800 \text{ \AA} = 8.8\lambda.$$

Finally, on page 4033, ninth line from the top, estimates for the density $n_0 = 2.3 \times 10^{11} \text{ cm}^{-2}$ should be $a_{2/3} = 5.5\lambda$ and $\alpha_{2/3} = 6.8\lambda$ for the gate voltages $V_g = 3$ and 4.5 V , respectively.