Erratum: Time-dependent approach to electron transport through junctions: General theory and simple applications [Phys. Rev. B **22**, 5887 (1980)]

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In Eq. (59b) several “2” should be replaced by “ r ”. The equation should read

$$J(V) = -\frac{4e\epsilon_F}{\pi\hbar} \int_1^{1+r} dx \Theta(x-r) \frac{\sqrt{x(x-r)}}{|\sqrt{x} + \sqrt{x-r}|^2}. \quad (59b)$$

There is also a typo in Eq. (85). It should read

$$J(V) = \frac{8eT}{N\hbar} \sum_q f_q \sin^2(qa) \left(\frac{\Theta(q)\text{Im } A(\epsilon_q + V)}{|A(\epsilon_q + V) - e^{-iqa}|^2} - \frac{\Theta(-q)\text{Im } B(\epsilon_q)}{|B(\epsilon_q) - e^{-iqa}|^2} \right). \quad (85)$$

In particular, at half filling ($q_F a = \frac{\pi}{2}$) and zero temperature, by changing the integration variable from q to $\cos(qa)$ and doing some algebra, this leads to Eq. (86).

These are typing errors that escaped my attention when reading the proofs and do not affect any of the results and conclusions of this paper.

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