

Effects of band structure and quantum interference on the differential conductance of infinite metallic single-wall carbon nanotube

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Corrigendum

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Recently we found that there was a missing factor, $\hbar v_F/2$, in the denominator of the amplitudes in equations (30) and (32). The correct equations are, respectively,

$$\Re \left[\frac{G_{\text{imp}}^{\alpha\alpha, \text{arm}}(V_{\text{sd}}, \mathcal{E}_{\mathcal{F}})}{G_0} \right] = \left(\frac{\pi g^2 T^{\text{arm}}}{\hbar v_F \mathcal{M} \mathcal{N}_{\text{arm}}^2} \right) \cos [2k_F(l_2 - l_1)T^{\text{arm}}] \\ \times \cos \left[\left(\frac{eV_{\text{sd}}}{\hbar v_F} \right) (l_2 - l_1)T^{\text{arm}} \right],$$

and

$$\Re \left[\frac{G_{\text{imp}}^{\alpha\alpha, \text{zig}}(V_{\text{sd}}, \mathcal{E}_{\mathcal{F}})}{G_0} \right] = \left(\frac{\pi g^2 T^{\text{zig}}}{\hbar v_F \mathcal{M} \mathcal{N}_{\text{zig}}^2} \right) \cos \left[\left(\frac{eV_{\text{sd}}}{\hbar v_F} \right) (l_2 - l_1)T^{\text{zig}} \right].$$

This factor just rescales the absolute value of the amplitudes by $2/\hbar v_F \approx 0.1634$, and it does not affect anything else. Also, some misprinted errors have been detected:

- (1) $g = 10^3 \gamma_0$, on page 11 after equation 33, should be replaced by $g = 10^4 \gamma_0$;
- (2) All ‘bohr’ should be replaced by ‘Bohr’;
- (3) \tilde{g}^{\pm} in equation (23) should be replaced by \mathbf{g}^{\pm} .

These errors do not affect the conclusions of the paper. We apologize for these mistakes and any possible inconvenience they have caused.