Erratum: Enhanced Casimir effect for doped graphene [Phys. Rev. B **93, 075414 (2016)]**

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Due to the last-minute change of notation in Eq. (6) the expressions for $\Delta\Pi_{xx}$ and M_{tr} given in our paper are incorrect. They must read

$$\Delta\Pi_{xx} = \frac{8\alpha}{v_F^2} \int_m^\infty d\kappa \left(1 + \operatorname{Re} \frac{M_{xx}}{\sqrt{Q^2 - 4v_F^2 p_\parallel^2 (\kappa^2 - m^2)}} \right) \Xi(\kappa), \quad M_{tr} = -\tilde{p}^2 + 4\kappa(1 - v_F^2)(ip_4 + \kappa) + 4v_F^2 m^2. \quad (1)$$

For the same reason Eq. (8) should read

$$\Delta\Pi_{tr}(p) = 8\alpha \left(\frac{\mu}{v_F^2} - \operatorname{Im} \left[\frac{\tilde{p}^2 + p^2}{4\tilde{p}} \log(x + \sqrt{x^2 + 1}) + \frac{(1 - v_F^2)p_\parallel^2}{4\tilde{p}} x \sqrt{x^2 + 1} \right] \right). \quad (2)$$

The results of the numerical evaluation given in the paper are not influenced by these misprints.

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