

## Erratum: Polaron effects on the dc- and ac-tunneling characteristics of molecular Josephson junctions [Phys. Rev. B **86**, 035406 (2012)]

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Equation (2) contains a spurious sum over  $\sigma$  in the last term. The equation should read

$$H_\alpha = \sum_{\mathbf{k}\sigma} \epsilon_{\alpha\mathbf{k}\sigma} c_{\alpha\mathbf{k}\sigma}^\dagger c_{\alpha\mathbf{k}\sigma} + \sum_{\mathbf{k}} (\Delta_\alpha^* c_{\alpha\mathbf{k}\uparrow} c_{\alpha,-\mathbf{k},\downarrow} + \text{H.c.}). \quad (2)$$

Equation (5) is missing a sum over  $\alpha$ . The equation should read

$$\tilde{H} = \sum_{\alpha} H_\alpha + \sum_{\sigma} \left( \tilde{\epsilon}_0 - \frac{eV}{2} \right) d_\sigma^\dagger d_\sigma + \hbar\omega_v a^\dagger a + \tilde{H}_T. \quad (5)$$

The correct equations have been used in the derivations and our results remain unchanged.

The definition of the quantity  $g$  appearing in Eqs. (14) and (15) was inadvertently omitted from the paper. The correct definition is  $g \equiv \lambda/\hbar\omega_v$ .