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Author Correction: Strong indirect coupling between graphene-based mechanical resonators via a phonon cavity

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Correction to: *Nature Communications* <https://doi.org/10.1038/s41467-018-02854-4>; published online 26 January 2018

The original version of this Article contained an error in the last sentence of the second paragraph of the ‘Raman-like coupling between well-separated resonators’ section of the Results, which incorrectly read ‘On the contrary, when the detuning Δ_{12} is lowered to ~180 kHz, a distinct avoided level crossing between modes R_1 and R_3 is observed, as shown inside the dashed circle in Fig. 2b.’ The correct version states ‘ $\Delta_{12}/2\pi$ ’ in place of ‘ Δ_{12} .’

Additionally, the first sentence of the ‘Theory of three-mode coupling’ section of the Methods originally incorrectly read ‘We describe this three-mode system with the Hamiltonian ($\hbar = 4$).’ The correct version states ‘ $\hbar = 1$ ’ instead of ‘ $\hbar = 4$.’

Equation 8 was originally missing a factor of ‘ a_2 ’ from the second term, and incorrectly read:

$$a_{\Delta\pm} = \frac{(\Omega_{12}a_1 \pm (\omega_{\Delta 0} \mp \Delta) + \Omega_{23}a_3)}{\sqrt{2\omega_{\Delta 0}(\omega_{\Delta 0} \mp \Delta)}}.$$

The correct form of Equation 8 is:

$$a_{\Delta\pm} = \frac{(\Omega_{12}a_1 \pm (\omega_{\Delta 0} \mp \Delta)a_2 + \Omega_{23}a_3)}{\sqrt{2\omega_{\Delta 0}(\omega_{\Delta 0} \mp \Delta)}}.$$

The eleventh and twelfth sentences of the second paragraph of the ‘Theory of three-mode coupling’ section of the Methods originally incorrectly read ‘The nearly degenerate modes can be viewed as a hybridization of α_1 and α_3 with an effective coupling $\Omega_{13}(\alpha_1^\dagger\alpha_3 + \alpha_3^\dagger\alpha_1)/2$. The magnitude of this effective coupling is equal to the frequency splitting between the nearly degenerate modes, with $\Omega_3 = (\Omega_{12}^2 + \Omega_{23}^2)/2\Delta$.’ These sentences have been replaced with ‘The nearly degenerate modes can be viewed as a hybridization of α_1 and α_3 with an effective splitting $(\Omega_{12}^2 + \Omega_{23}^2)/2\Delta$.’

In Equation 10, the term on the left-hand side was originally incorrectly given as ‘ M ’. The corrected version changes this to ‘ M_{eff} ’.

Finally, the original version of this Article contained an error in Fig. 3b, in which the units on the y-axis were incorrectly given as ‘MHz’, rather than the correct ‘kHz’.

This has been corrected in both the PDF and HTML versions of the Article.

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