

**Erratum: Theory of resonant multiphonon Raman scattering in graphene
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Equation (53) is wrong. Its correct form is

$$H_{\text{em-ph}} = \frac{e^2}{v_R} \int d^2\mathbf{r} [(\mathcal{E}_x^2 - \mathcal{E}_y^2)u_{E_2y} - 2\mathcal{E}_x\mathcal{E}_y u_{E_2x}]. \quad (53)$$

Consequently, Eq. (54), derived from Eq. (53), should have the form

$$\left. \begin{array}{l} \mathcal{M}^x \\ \mathcal{M}^y \end{array} \right\} = \frac{2e^2}{v_R} \frac{2\pi\sqrt{\omega_{\text{in}}\omega_{\text{out}}}}{\sqrt{2NM\omega_{\Gamma}(0)/(L_x L_y)}} \left\{ \begin{array}{l} -e_{\text{in},x}e_{\text{out},y}^* - e_{\text{in},y}e_{\text{out},x}^*, \\ e_{\text{in},x}e_{\text{out},x}^* - e_{\text{in},y}e_{\text{out},y}^*. \end{array} \right. \quad (54)$$

This change does not affect any qualitative conclusions of the paper.