**Erratum: Theory of two-dimensional spatially indirect equilibrium exciton condensates
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Equation (17) misstates the form of the variational wave function corresponding to the fluctuation action we employ. The correct equation is

$$|\Phi\rangle = \prod_{\vec{k}} \left[\mathcal{Z}_{\vec{k}} + \sum_{\vec{Q}} z_{\vec{k}}(\vec{Q}) \gamma_{(\vec{k}+\vec{Q}),1}^{\dagger} \gamma_{\vec{k},0} \right] |XC\rangle. \quad (17)$$

Correspondingly, the sentence after Eq. (19) needs to be revised as follows: $\mathcal{Z}_{\vec{k}}$ is a normalization factor,

$$\mathcal{Z}_{\vec{k}} = \sqrt{1 - \sum_{\vec{Q}} |z_{\vec{k}}(\vec{Q})|^2}, \quad (20)$$

which replaces Eq. (20) in the original paper.