Erratum: Attenuation of excitation decay rate due to collective effect
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B. A. Tay

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There are corrections to a few equations. The corrections do not affect the rest of the discussion and conclusions. In Eqs. (21) and (22) the signs of the $\sin(\phi_0/2)$ terms should be reversed to read

$$A_1 = a_1 \cos(\phi_0/2) - a_2 \sin(\phi_0/2), \quad (21)$$

$$A_2 = a_1 \sin(\phi_0/2) + a_2 \cos(\phi_0/2). \quad (22)$$

Equations (21) and (22) are now consistent with Eqs. (28) and (29), which involve the inversion of Eqs. (21) and (22). Equation (27) should read

$$\begin{aligned} \omega_+ &\equiv \omega'_1 \cos^2(\phi_0/2) + \omega'_2 \sin^2(\phi_0/2) - J_{12} \sin \phi_0, \\ \omega_- &\equiv \omega'_1 \sin^2(\phi_0/2) + \omega'_2 \cos^2(\phi_0/2) + J_{12} \sin \phi_0, \\ \omega_{\pm} &= \frac{1}{2}(\omega'_1 + \omega'_2) \pm \frac{1}{2}\sqrt{(\omega'_1 - \omega'_2)^2 + 4J_{12}^2}. \end{aligned} \quad (27)$$