

**Erratum: Coherent Control in the Presence of Intrinsic Decoherence: Proton Transfer  
in Large Molecular Systems  
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Equation (5) appears incorrectly. The correct equation, in which a multiplication sign should actually be a plus sign, is given by:

$$\begin{aligned}
 P(t) = & \hbar^{-2} \int_{-\infty}^t dt' \int_{-\infty}^t dt'' \sum_{j,j'=1}^2 c_j c_{j'}^* \langle j' | \hat{\mathbf{e}} \cdot \boldsymbol{\mu} e^{i\hat{H}(t-t'')/\hbar} \mathbf{R} e^{-i\hat{H}(t-t')/\hbar} \hat{\mathbf{e}} \cdot \boldsymbol{\mu} | j \rangle \\
 & \times e^{i(E_j t'' - E_{j'} t')/\hbar} \epsilon_1^2 [F_1(t' - t_1) F_1(t'' - t_1) e^{i\omega_1(t'' - t')} + F_2(t' - t_2) F_2(t'' - t_2) x^2 e^{i\omega_2(t'' - t')} + F_2(t' - t_2) F_1(t'' - t_1) \\
 & \times x e^{i[(\omega_1 t'' - \omega_2 t') + \Theta]} + F_1(t' - t_1) F_2(t'' - t_2) x e^{i[(\omega_2 t'' - \omega_1 t') - \Theta]}]. \quad (1)
 \end{aligned}$$