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Global analysis of fluorescence fluctuation data

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We noticed a mistake in equation 4 on page 324. The equation is printed as follows:

$$G(\tau) = 1 + \frac{1}{\langle N \rangle} \cdot \frac{1 - T + T e^{-\tau/\tau_{\text{trip}}}}{(1 - T)} \sum_j \Phi_j$$

$$\times \frac{1}{\left(1 + \frac{\tau}{\tau_{\text{dif},j}}\right) \sqrt{1 + \left(\frac{\omega_{xy}}{\omega_z}\right)^2 \frac{\tau}{\tau_{\text{dif},j}}}}$$

with $\Phi_j = \frac{(\eta_j^2 Y_j^2)}{\left(\sum_j \eta_j Y_j\right)^2}$.

but it should be:

$$G(\tau) = 1 + \frac{1}{\langle N \rangle} \cdot \frac{1 - T + T e^{-\tau/\tau_{\text{trip}}}}{(1 - T)} \sum_j \Phi_j$$

$$\times \frac{1}{\left(1 + \frac{\tau}{\tau_{\text{dif},j}}\right) \sqrt{1 + \left(\frac{\omega_{xy}}{\omega_z}\right)^2 \frac{\tau}{\tau_{\text{dif},j}}}} \quad (4)$$

with $\Phi_j = \frac{(\eta_j^2 Y_j)}{\left(\sum_j \eta_j Y_j\right)^2}$

(4) stating that each species contributes to the autocorrelation curve according to the square of the brightness η and not to the square of the molecular fraction Y .

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