Erratum: Dynamics of an electric dipole moment in a stochastic electric field
[Phys. Rev. E 88, 022127 (2013)]

Y. B. Band

(Received 19 May 2016; published 6 June 2016)

DOI: [10.1103/PhysRevE.93.069901](https://doi.org/10.1103/PhysRevE.93.069901)

Equation (3) in the paper should read

$$0 = \frac{\partial \mathcal{L}}{\partial \theta} - \frac{d}{dt} \frac{\partial \mathcal{L}}{\partial \dot{\theta}} \Rightarrow \ddot{\theta} + \frac{Ed}{I} \sin \theta - \frac{\omega^2 \sin 2\theta}{2 \sin^4 \theta} = 0. \quad (3)$$

The factor of $\sin^{-4} \theta$ in the last term on the left hand side of the differential equation was incorrectly written as $\sin^{-2} \theta$, and this factor was left out of the terms proportional to ω^2 in Eqs. (5) and (7). This correction does not affect the rest of the paper since the correct expressions were used in the calculations.