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Diffusion of single ellipsoids under quasi-2D confinements*

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In many biological systems, the shape of rigid, non-spherical molecules can be modeled by ellipsoids. Diffusion of such particles in quasi-two-dimensional media is different from three-dimensional due to confinement effects .
In this seminar, we investigate the translational and rotational Brownian motion of single ellipsoidal particles confined between two walls and describe experimental measurement of diffusion coefficients of ellipsoid along two axes (Da and Db) and the effect of wall confinement and particle aspect ratio on Da/Db.

** (Y. Han, A. Alsayed, M. Nobili, and A. G. Yodh, "Diffusion of single ellipsoids under quasi-2D confinements", PHYSICAL REVIEW E 80, 011403 (2009)*

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