rotational diffusion coefficient
Defined by the equation:

$$D_\theta = \frac{t_\theta}{(\partial f(\theta,\Phi)/\partial\theta)\sin\theta}$$

where $f(\theta,\Phi)\sin\theta\,\mathrm{d}\theta\,\mathrm{d}\Phi$ is the fraction of particles whose axes make an angle between θ and $\theta + \mathrm{d}\theta$ with the direction $\theta = 0$, and have an azimuth between Φ and $\Phi + \mathrm{d}\Phi$, $t_\theta \mathrm{d}\Phi$ is the fraction of particles having an azimuth between Φ and $\Phi + \mathrm{d}\Phi$ whose axis passes from values $< \theta$ to values $> \theta$ in unit time. The axis whose rotational diffusion is considered has to be clearly indicated.

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