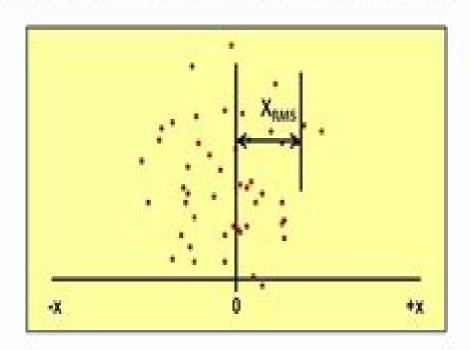
# Displacement From Brownian Motion



Root Mean Square Displacement

$$X_{RMS} = \sqrt{2 D t}$$

Particle Size	Diffusion Coefficient, D	Displacement, X <sub>RMS</sub>
5 nm	Large	Long
300 nm	Small	Short

## **Brownian Motion And Diffusion**

**Michael Rajnik** 

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