



سمینار هفتگی گروه ماده چگال نرم

## **Effect of Flagella on the Translational Diffusion in Escherichia Coli**

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We investigate the effect of flagella on the translational diffusion coefficient. With using a mutation E. coli without flagella as a control, it is possible to predict the arrangement of flagella.

Experimentally, we could suggest a model between ellipsoid and cylinder for E. coli shape with effective short length for it.

**زمان:** شنبه ۸۷/۳/۴ ، ساعت ۱۶:۰۰

**مکان:** آمفی تئاتر دانشکده فیزیک

قطب ماده چگال و سیستمهای پیچیده