



قطب علمی
سیستم‌های پیچیده
و ماده چگال



سمینار هفتگی ماده چگال نرم

Helical structure formation in charged polymer solution fibers

Peyman shariatpanahi

Department of physics
Sharif University

The problem of electrical bending instability in charged polymer fibers has become important in processes like electrospinning. It is shown that when electrical force exceeds surface tension force in the fibers, they form a growing helical structure. In this presentation we give a model for the phenomenon. The proposed model mentions that the helix properties is dependent on the proportion of the electrical and surface tension forces and is independent of the viscosity. We will show that it has a good agreement with the experimental results.

زمان: شنبه ۸۸/۱۲/۲۲ ، ساعت : ۱۵:۳۰

مکان: آمفی تئاتر دانشکده فیزیک