



قطب علمی
سیستم‌های پیچیده
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سمینار هفتگی ماده چگال نرم

A Liquid Film Motor

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When an electric field is applied on a liquid film which carrying an electric current, the film begins to rotate. The direction and velocity of the rotation is controllable by the electric current and field. We used PIV (Particle Image Velocimetry) technique to measure the velocity profile of the rotation for different liquids and different isomers of Nonanol liquid. Our measurements show that the velocity profile of the rotation depends on the electric field and current. We also show that the profile is different for different concentrations of mixed-isomers.

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