

## Supplementary Information

### **The effect of frame roughness and geometry on an electrically rotating thin film**

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## Videos Contents:

### Video S01

**Experiment.** Rotation of a suspended liquid thin film in circular, rough circular, square, and rough square frames. Each recording has a duration of 10 s.

### Video S02

**Simulation.** Velocity-field simulations for a frame geometry transforming from a square ( $\frac{r_B}{a} = 0$ ) to a circle ( $\frac{r_B}{a} = 0.5$ ), shown in 100 discrete steps.