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External Force-Induced Focus Pattern of a Flexible Filament in a Viscous Fluid

Yuan-Qing Xu , Ming-Yi Wang , Qiong-Yao Liu , Xiao-Ying Tang , Fang-Bao Tian

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Highlights

- A focus pattern of a vibrating flexible filament in a viscous fluid is reported.
- External driving force, bending rigidity or fluid viscosity can alter the focus state.
- Mechanism of wall attraction can be explained by analyzing the focus pattern.
- Hydrodynamics of the focus pattern can be quantified by analyzing N-S equation

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