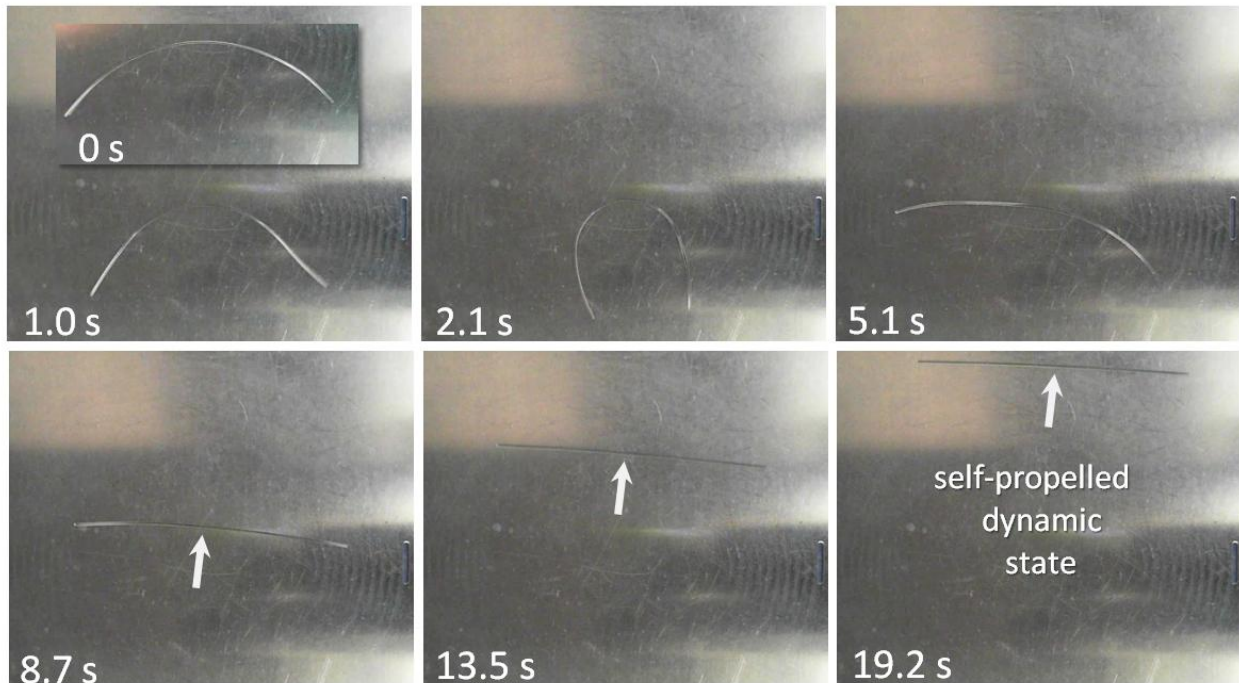


# Collective Dynamics of Spaghetti Motors

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In our lab we have recently invented and created a new conceptual type of motor consisting of a single polymer fiber. Based on a generic physical principle we can turn virtually any polymer fiber and even a piece of pasta into a self-propelled engine. The goal of this master thesis is to experimentally study the collective behavior of such engines and active particles when they start to interact in confined spaces and when we subject them to external forces.



We are looking for a dynamic out-of-the-box-thinker, a condensed matter physics or materials science student with good analytic skills, imagination and some affinity towards performing conceptual experiments.

For more details , don't hesitate, contact us.