

Active Nematics at Bifurcations

Zhengyang Liu,¹ Claire Doré,¹ Antonio Tavera-Vazquez,^{1,2} and Teresa Lopez-Leon¹

¹Laboratoire Gulliver, UMR 7083 CNRS, ESPCI Paris, PSL Research University, 75005 Paris, France.

²Pritzker School of Molecular Engineering, University of Chicago, Chicago, IL 60637, USA.

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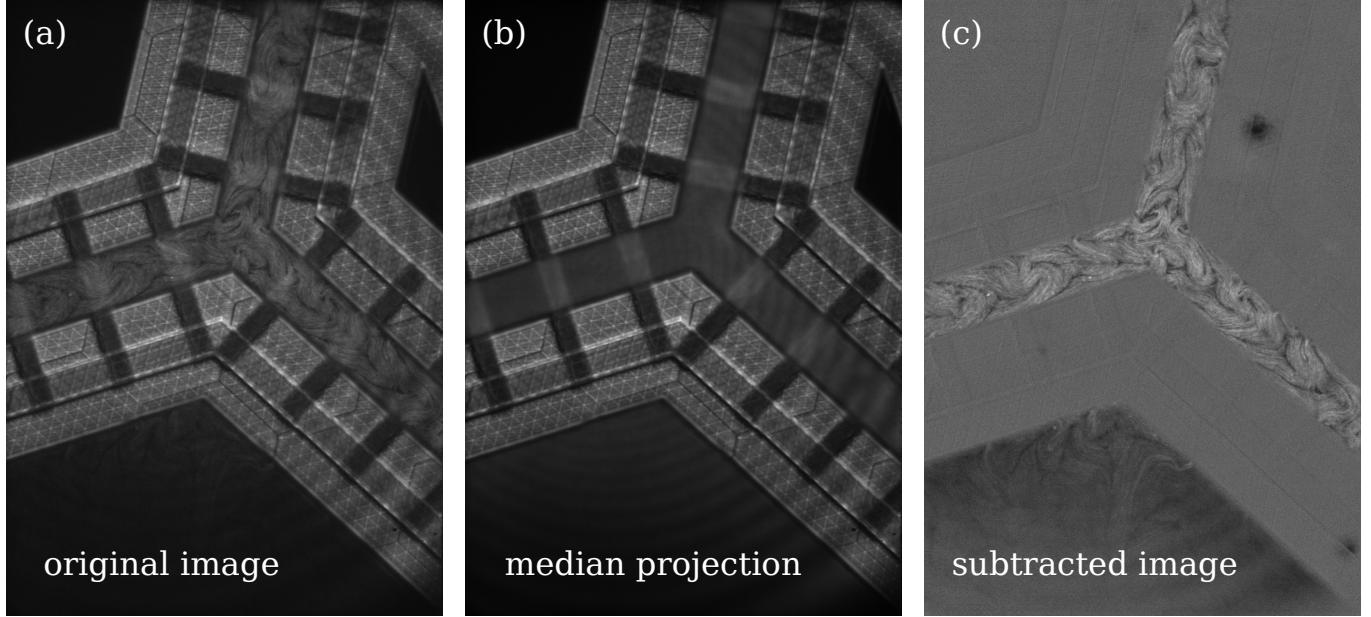


FIG. 1. Image processing – remove background.

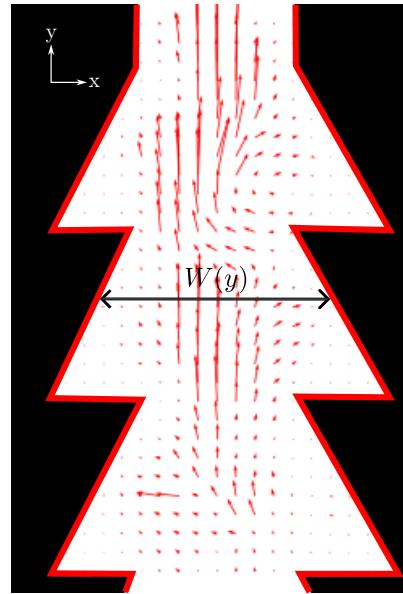


FIG. 2. Compute flow rate from PIV data – the definition of channel width.

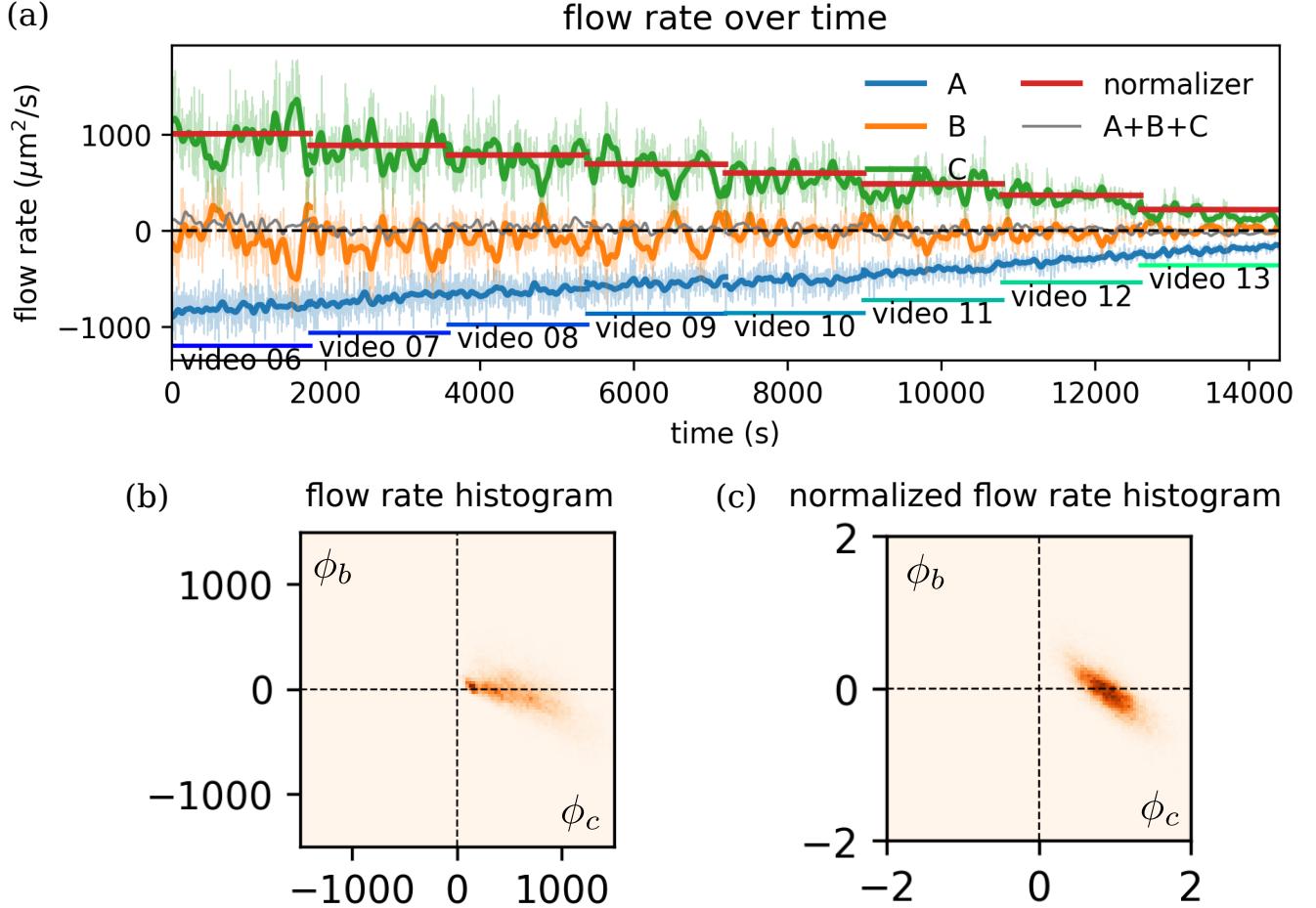


FIG. 3. Normalizing the flow rate data to account for the long time variation due to constantly decreasing activity.

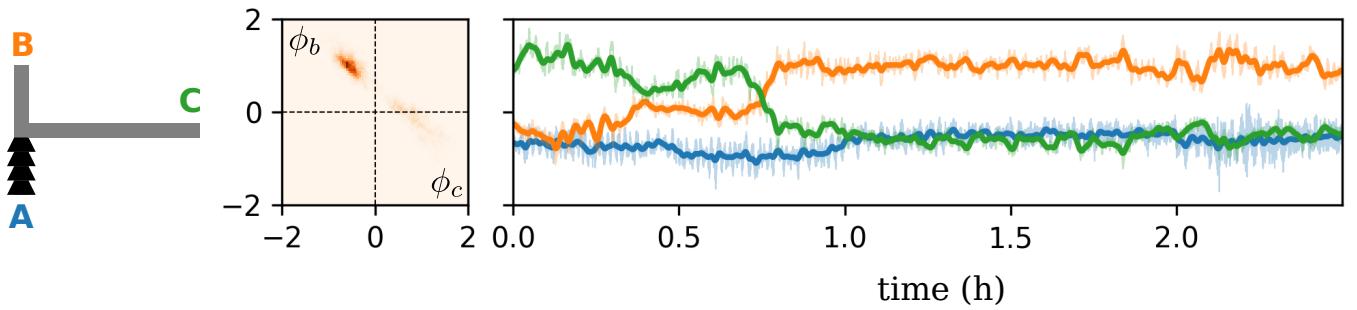


FIG. 4. Competition between angle and straight channel length.

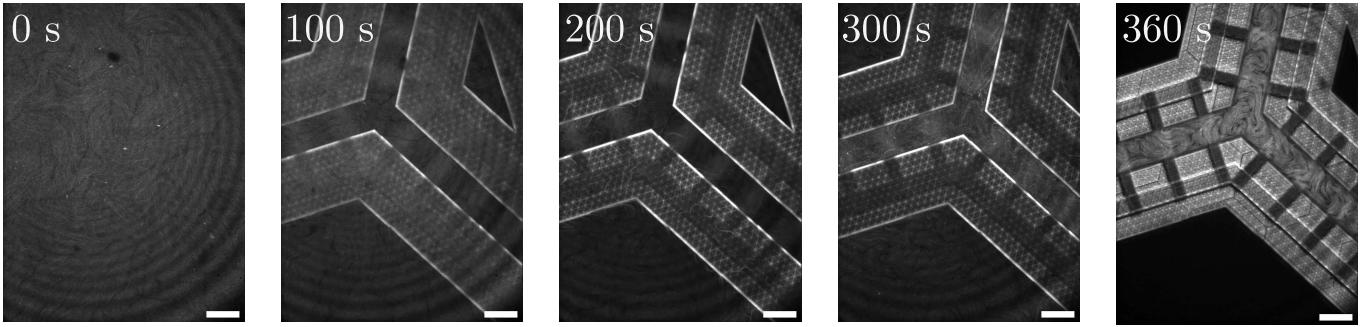


FIG. 5. Applying bifurcation channels to the interfacial microtubule-kinesin system.

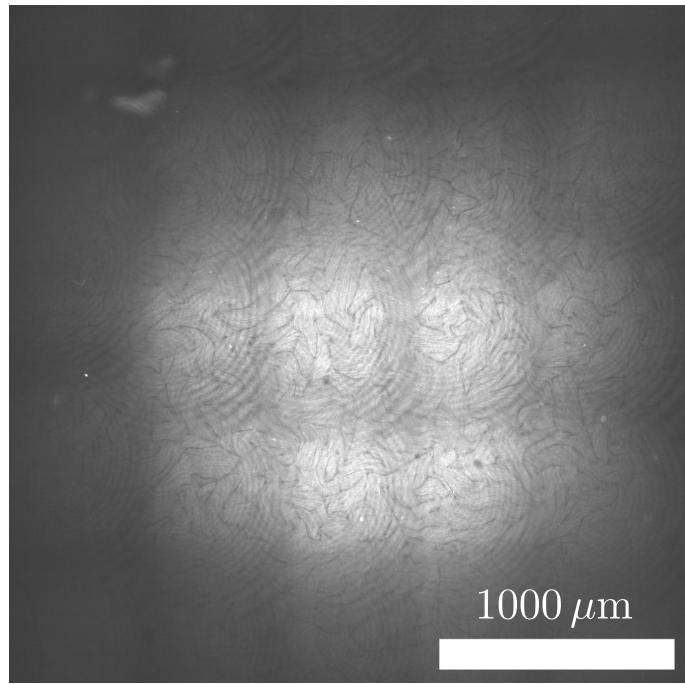


FIG. 6. Confocal image of the microtubule-kinesin system interface, showing that the interface is slightly curved due to the competition between surface tension and gravity.