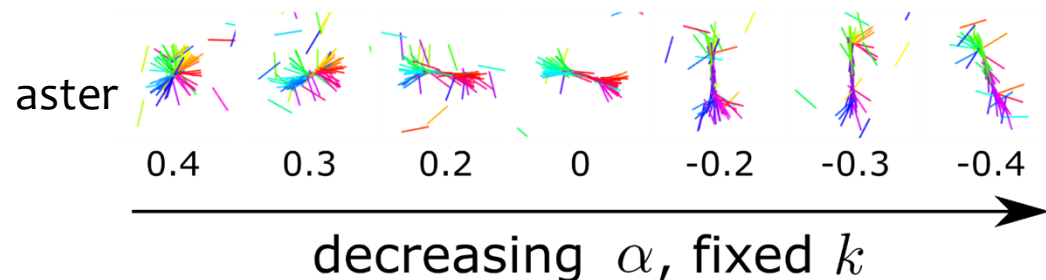


# Energy dissipation: a new dimension to control self-assembly

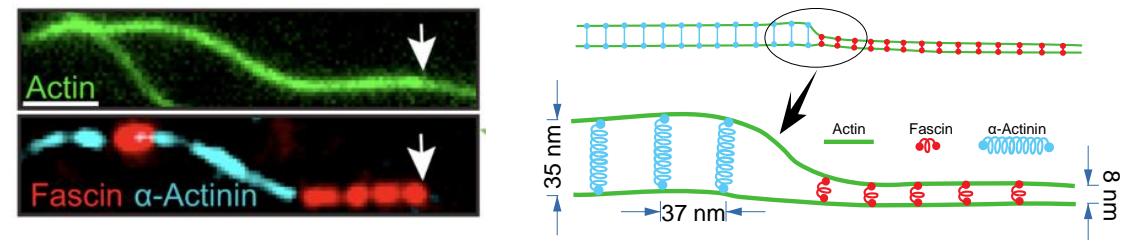
## Thermodynamic Control of Activity Patterns in Cytoskeletal Networks



**A unique thermodynamic control principle for activity patterning of cytoskeletal networks**

Lamtyugina\*, Qiu\*, Fodor, Dinner and Vaikuntanathan. PRL 2022.

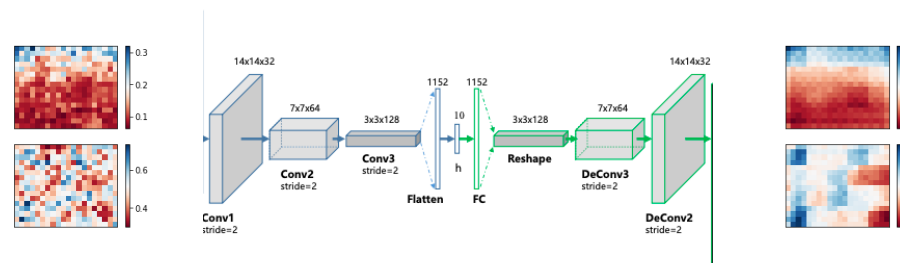
## A Strong Non-equilibrium Bound for Sorting of Crosslinkers on Growing Biopolymers



**Can we extend the linear irreversible thermodynamics framework to the far-from-equilibrium regime?**

Qiu, Nguyen, Hocky, Dinner, and Vaikuntanathan. PNAS 2021.

## Identifying the Control Knobs of Cytoskeletal Flow using Simulations and Representation Learning



Qiu, White, Vaikuntanathan and Dinner, arXiv:2310.10819, under review in PNAS

