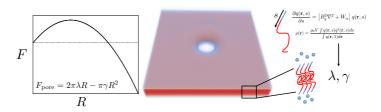




Pore Formation in Lipid Membranes

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Many biological processes require topological changes in lipid membranes. This includes attaching or detaching membranes and making or closing pores. We are interested in studying how difficult it is for a pore to form in a lipid membrane. For this project, you will learn to use sophisticated polymer simulation software in order to study the stability of these pores.



Your Challenges

- learn how to work on high performance computing clusters
- high level programming for CPU and GPU calculations
- \bullet understand polymeric models for lipids in solution
- $\bullet\,$ setup, execution, and analysis of polymer simulations
- \bullet use these tools to understand pore formation in membranes

What We Can Offer You

- insights into current topics in computational biophysics
- work in an international team
- well-tested programs for simulating polymeric systems

Interested? mmueller@theorie.physik.uni-goettingen.de or russell.spencer@theorie.physik.uni-goettingen.de