

Session Program

7-11 Sept 2026



Free Boundary Problems 2026

Free Boundaries in Active Matter

Humboldt Universität zu Berlin
Humboldt-Universität zu Berlin Unter den Linden 6 10099 Berlin

Tuesday 8 September

14:00

Free Boundaries in Active Matter: MS-12-1

Session |

Location: HU (Hegelplatz), DOR24/Floor 1-Room 103 - Lecture Hall, HU Berlin Dorotheenstrasse 24 (Hegelplatz) 10117 Berlin |

Convener: Shawn Walker

14:00-14:30

Efficient Numerical Schemes for a Two-Phase Hydrodynamical Model of Active Liquid Crystals and Solids

Speaker

Qi Wang

14:30-15:00

Instability of microbial droplets growing on viscous substrates

Speaker

Scott Wedy

15:00-15:30

The Scalar Truesdell Time Derivative and (L^2, H^{-1}) -Gradient Flows on Evolving Surfaces

Speaker

Dr Ingo Nitschke

15:30-16:00

Stability and Bifurcations in Free Boundary PDE Models of Cell Motility

Speaker

Oleksii Krupchytskyi

16:00

Wednesday 9 September

14:00

Free Boundaries in Active Matter: MS-12-2

Session |**Location:** HU (Main Building), Main Building/Floor 1-Room 2097 - Lecture Hall, HU Berlin Main Building Unter den Linden 6 10117 Berlin |**Convener:** Shawn Walker

14:00-14:30

Patterns in active nematic films

Speaker

Dmitry Golovaty

14:30-15:00

Defects, geometric frustration and free boundaries in liquid crystals

Speaker

Timothy Atherton

15:00-15:30

Constrained active nematics

Speaker

Slobodan Zumer

16:00