

Session Program

7-11 Sept 2026



Free Boundary Problems 2026

Phase Transitions and Pattern Formation

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

Tuesday 8 September

14:00

Phase Transitions and Pattern Formation: MS-8-1

Session |**Location:** HU (Hegelplatz), DOR24/Floor 1-Room 101 - Lecture Hall, HU Berlin Dorotheenstrasse 24 (Hegelplatz) 10117 Berlin |**Conveners:** Patrik Knopf, Helmut Abels

14:00-14:30

Analysis of an Allen--Cahn system in two scale topology optimization

Speaker

Robert Lasarzik

14:30-15:00

Stochastic phase-separation driven by transport noise

Speaker

Luca Scarpa

15:00-15:30

On the numerical treatment of the stochastic Cahn-Hilliard equation with singular potential

Speaker

Stefan Metzger

15:30-16:00

Anisotropic crystal growth on surfaces

Speaker

Robert Nürnberg

16:00

Wednesday 9 September

10:30

Phase Transitions and Pattern Formation: MS-8-2

Session |

Location: HU (Main Building), Main Building/Floor 1-Room 2091 - Lecture Hall, HU Berlin Main Building Unter den Linden 6 10117 Berlin |

Conveners: Helmut Abels, Patrik Knopf

10:30-11:00

Phase-field models for growing viscoelastic solids

Speaker

Ulisse Stefanelli

11:00-11:30

Discretization of Cahn--Hilliard equations with dynamic boundary conditions: error estimates and adaptivity

Speaker

Nils Bullerjahn

11:30-12:00

Gradient flows of degenerate viscoelastic phase separation

Speaker

Moritz Gau

12:00-12:30

Local Well-posedness of a Diffuse Interface Two-phase Flow Model with Surfactants

Speaker

Songzhuang Chen

12:30

14:00

Phase Transitions and Pattern Formation: MS-8-3

Session |

Location: HU (Main Building), Main Building/Floor 1-Room 2091 - Lecture Hall, HU Berlin Main Building Unter den Linden 6 10117 Berlin |

Conveners: Helmut Abels, Patrik Knopf

14:00-14:30

Incompressible limit and pressure jump in the Cahn-Hilliard equation

Speaker

Charles Elbar

15:00-15:30

A new approach to convergence to equilibrium for Cahn--Hilliard type equations with non-degenerate mobility

Speaker

Andrea Poiatti

15:30-16:00

Sharp Interface Limit of a 3D Navier--Stokes/Allen--Cahn system

Speaker

Yadong Liu

16:00