

Session Program

7-11 Sept 2026



Free Boundary Problems 2026

Thin Material Structures

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

Monday 7 September

14:00

Thin Material Structures: MS-11-1

Session |**Location:** HU (Hegelplatz), DOR24/Floor 1-Room 101 - Lecture Hall, HU Berlin Dorotheenstrasse 24 (Hegelplatz) 10117 Berlin |**Convener:** Axel Voigt

14:00-14:30

Sharp Interface Models for Solid-State Dewetting Problems

Speaker

Prof. Weizhu Bao

14:30-15:00

Convergence of finite elements for a bulk-surface coupled free boundary problem

Speaker

Yifei Li

15:00-15:30

A Multi-Phase-Field Approach to Solid-State Dewetting of Polycrystalline Thin Films

Speaker

Marco Salvalaglio

15:30-16:00

Optimal L^2 error analysis of a loosely coupled finite element scheme for thin-structure interactions

Speaker

Prof. Buyang Li

16:00

Tuesday 8 September

10:30

Thin Material Structures: MS-11-2

Session |

Location: HU (Hegelplatz), DOR24/Floor 1-Room 102 - Lecture Hall, HU Berlin Dorotheenstrasse 24 (Hegelplatz) 10117 Berlin |

Convener: Prof. Weizhu Bao

10:30-11:00

Self-avoiding Fluid Deformable Surfaces

Speaker

Maik Porrmann

11:00-11:30

Numerical Simulation of Fluid Deformable Surfaces in Stream Function Formulation

Speaker

Enno Igel

11:30-12:00

Vorticity-Homology and Variational Formulations for Navier--Stokes and Scriven Flows on Surfaces with Arbitrary Topology

Speaker

Albert Chern

12:00-12:30

Surface Beris-Edwards-Helfrich models - how local orientational order can influence global shape

Speaker

Axel Voigt

12:30