

## **Session Program**

**7-11 Sept 2026**



# **Free Boundary Problems 2026** **Numerical Methods for Geometric PDEs**

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

# Tuesday 8 September

16:30

## Numerical Methods for Geometric PDEs: MS-3-1

**Session** |

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

**Convener:** Buyang Li

16:30-17:00

### Boundary Shape Derivatives with Unfitted Finite Elements

**Speaker**

Shawn Walker

17:00-17:30

### Curvature tensors for piecewise smooth metrics

**Speaker**

Evan Gawlik

17:30-18:00

### Blow-up finite elements for tensor fields on surfaces

**Speaker**

Yakov Berchenko-Kogan

18:30

## Wednesday 9 September

10:30

### Numerical Methods for Geometric PDEs: MS-3-2

**Session** |

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

**Convener:** Robert Nürnberg

10:30-11:00

#### Minimal horizontal triods

**Speaker**

Paola Pozzi

11:30-12:00

#### Error analysis of a nonconforming surface finite element method for the vector Laplacian

**Speaker**

Carolin Mehlmann

12:00-12:30

#### Viscoelastic two-phase flows

**Speaker**

Dennis Trautwein

12:30