

Conference on
“Nonlinear PDE’s, images, shapes and beyond - a conference in
honor of Martin Rumpf’s 60th birthday”

June 3-5, 2024

organized by
Benjamin Berkels, Alexander Effland, Benedikt Wirth

• Monday, June 3

12:00 - 13:00	<i>Welcome</i>
13:00 - 14:00	Patrick Dondl Pomelo and Cactus-Mathematics
14:00 - 15:00	Gabriele Steidl Wasserstein Gradient Flows and Generative Models for Posterior Sampling in Inverse Problems
15:00 - 15:30	<i>Coffee Break and Group Photo</i>
15:30 - 16:30	Max Wardetzky Sub-Riemannian Random Walks: From Connections to Retractions
16:30 - 17:30	Tobias Preußer TBA
<i>afterwards</i>	<i>Reception</i>

- **Tuesday, June 4**

09:00 - 10:00	Felix Otto Thin-film equation with thermal noise: a need for renormalization, and a positivity preserving discretization
10:00 - 11:00	Mirela Ben-Chen From Thin Film Flow to Elastic Correspondence, a functional approach to surface processing
11:00 - 11:30	<i>Coffee Break</i>
11:30 - 12:30	Peter Schröder Going with the Flow
12:30 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Carola Schönlieb Mathematical modelling and AI for scientific imaging: from nonlinear PDEs and Riemannian geometry to neural networks
15:00 - 15:30	<i>Coffee break</i>
15:30 - 16:30	Robert Strzodka Alternating and Multiplicative Operator Splittings
16:30 - 17:30	Rüdiger Schultz How shapes learned shaking

- **Wednesday, June 5**

09:00 - 10:00	Martin Metscher Shaping the future of aviation - Technology roadmap towards emission-free flying
10:00 - 11:00	Barbara Zwicknagl Variational models for pattern formation in helimagnets
11:00 - 11:30	<i>Coffee Break</i>
11:30 - 12:30	Sergio Conti A variational phase-field model of cohesive fracture
<i>afterwards</i>	<i>Closing</i>