

Spring School 2024

April, 8-12

Julius-Maximilians-
**UNIVERSITÄT
WÜRZBURG**

Institute of
Mathematics



Mathematical Advances for Complex Materials with Microstructures

Speakers

Carlos J. García-Cervera, University of California, Santa Barbara
Mathematical Foundations of Electronic Structure Theory

Martin Kružík, Czech Academy of Sciences
Variational approaches to time-dependent problems in solid mechanics

Apala Majumdar, University of Strathclyde
Solution Landscapes for Nematic Liquid Crystals and their Applications

Elisabetta Rocca, University of Pavia
Cahn-Hilliard-type phase-field theory coupled with large elastic deformations

Arghir Zarnescu, Basque Center for Applied Mathematics
Design of nematic liquid crystals through colloidal homogenisation

Scientific committee

Alain Goriely (Oxford), Michael Destrade (Galway), Linda Cummings (New Jersey),
Lia Bronsard (Ontario), Ulisse Stefanelli (Vienna), Juan J. L. Velázquez (Bonn),
Chun Liu (Illinois)

Organisers and staff

Anja Schlömerkemper, Francesco De Anna, Anne Boenisch, University of Würzburg

sponsored by



Registration online until January 15, 2024
A limited amount of financial support is available.

