

Plenary Lectures - Mathematics

Patrizio Neff (University of Duisburg-Essen)	Logarithmic strain measures in nonlinear elasticity
Laura Grigori (INRIA Paris)	Recent advances in the design of robust communication avoiding algorithms: from large scale linear algebra to tensors
Carola Schönlieb (University of Cambridge)	Data driven variational models for solving inverse problems
Josef Málek (Charles University Prague)	Beyond the Navier-Stokes equations

Plenary Lectures - Mechanics

Stefan Hartmann (TU Clausthal)	The method of vertical lines in non-linear finite elements
Jörn Mosler (TU Dortmund)	Mechanical interfaces and interphases
Holger Steeb (University of Stuttgart)	Modelling Porous Media: From Images to Numerical Simulations
Laurette Tuckerman (ESPCI Paris)	Exotic patterns of Faraday waves

Special Lectures

Ludwig Prandtl Memorial Lecture

Ulrich Schumann (German Aerospace Center (DLR))
On the spectrum of atmospheric motions

Public Lecture

Siegfried Hoß (Museumslandschaft Hessen Kassel (MHK))
Die Wasserkünste von Wilhelmshöhe – Technik und Kunst