

Plenary Lectures - Mathematics

Valeria Simoncini (University of Bologna)	<i>On the versatility of Krylov subspaces in modern matrix computations</i>
Eduard Feireisl (Czech Academy of Sciences Prague)	<i>Oscillatory solutions to problems in fluid mechanics: Analysis and numerics</i>
Martin Burger (FAU Erlangen-Nürnberg)	<i>Mathematical methods for changing networks - from neural to social</i>
Jan Hesthaven (EPFL)	<i>Non-intrusive Reduced Order Models through Neural Networks</i>

Plenary Lectures - Mechanics

Andres Kecskemethy (University of Duisburg-Essen)	<i>Kinematics – Dead or alive? Some applications of kinematics in fast multibody dynamics, creative mechanism design, biomechanics and robotics</i>
Ellen Kuhl (Stanford University)	<i>Mechanics meets Machine Learning – What can we learn?</i>
Claus-Dieter Munz (University of Stuttgart)	<i>Sharp interface approximations for compressible two-phase flow with phase change</i>
Bai-Xiang Xu (TU Darmstadt)	<i>Multiphysics phase-field modeling and simulation of advanced materials and processing</i>

Special Lectures

Ludwig Prandtl Memorial Lecture

Tim Colonius (California Institute of Technology)	<i>Structure and reduced-order-modeling of turbulence in the frequency domain</i>
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Public Lecture

Metin Tolan (University of Göttingen)	<i>Geschüttelt, nicht gerührt: James Bond im Visier der Physik</i>
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