



GESELLSCHAFT für  
ANGEWANDTE MATHEMATIK und MECHANIK e.V.  
INTERNATIONAL ASSOCIATION of APPLIED MATHEMATICS and MECHANICS

**86<sup>th</sup> Annual Meeting**  
of the International Association  
of Applied Mathematics and Mechanics  
**March 23-27, 2015**  
**Lecce, Italy**



**Thematic Program &  
List of Participants**



**UNIVERSITÀ  
DEL SALENTO**

[jahrestagung.gamm-ev.de](http://jahrestagung.gamm-ev.de)



THEMATIC PROGRAM  
&  
LIST OF PARTICIPANTS

March, 2015



# THEMATIC PROGRAM



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## Ludwig Prandtl Memorial Lecture

### Prandtl Lecture

Monday, 23 | 14:00-15:00

Chair: M. Oberlack

Tiziano Room

14:00 **Discontinuities and topological jumps in slowly evolving vortical flows**  
Moffatt

## Public Lecture

### Public Lecture

Tuesday, 24 | 18:30-19:30

Chair: G. Zavarise

Tiziano Room

18:30 **Do the Gates to the Hell really exist?**  
D'Andria

## Plenary Lectures

### Plenary Lecture 1

Monday, 23 | 15:00-16:00

Chair: H. Kuhlmann

Tiziano Room

15:00 **On the Motion of a Rigid Body with a Liquid-filled Cavity**  
Galdi

### Plenary Lecture 2

Tuesday, 24 | 11:30-12:30

Chair: J. Schroeder

Tiziano Room

11:30 **Micromechanics based modeling of applied materials**  
Böhlke

### Plenary Lecture 3

Tuesday, 24 | 14:00-15:00

Chair: G. Leugering

Tiziano Room

14:00 **Optimal placement of sensors and actuators for waves in homogeneous and heterogeneous media**

Zuazua

### Plenary Lecture 4

Tuesday, 24 | 15:00-16:00

Chair: M. Oberlack

Tiziano Room

15:00 **Particle methods for complex flows of complex fluids**

Adams - Hu – Adami

### Plenary Lecture 5

Wednesday, 25 | 09:00-10:00

Chair: L. Gruene

Tiziano Room

09:00 **Nonlinear optimal control for airborne wind energy systems**

Diehl - Horn – Zanon

### Plenary Lecture 6

Thursday, 26 | 11:30-12:30

Chair: F. Brezzi

Tiziano Room

11:30 **Shape memory alloys: from recent modeling proposals to cardiovascular device simulations**

Auricchio

### Plenary Lecture 7

Thursday, 26 | 14:00-15:00

Chair: V. Mehrmann

Tiziano Room

14:00 **Low-rank techniques for high-dimensional problems in engineering and data-analysis**

Kressner

### Plenary Lecture 8

Thursday, 26 | 15:00-16:00

Chair: P. Wriggers

Tiziano Room

15:00 **Interfacial energy and size effects in evolving martensitic microstructures**

Stupkiewicz

## Minisymposia Lectures

### MS1: Multi-Scale Modeling of Ferroic Functional Materials.

Monday, 23 | 16:30-18:30

Chair: Kiefer

Tiziano Room

- 16:30      **Multiscale mechanical behaviour of nematic elastomers**  
DeSimone
- 17:10      **A laminate-based modelling approach for rate-dependent switching in ferroelectric materials**  
Menzel - Dusthakar - Svendsen
- 17:30      **Variational Structural and Material Stability Analysis in Finite Electro-Magneto-Mechanics of Active Materials**  
Miehe - Vallicotti
- 17:50      **Simulation of Size Effects in Ferroelectric Materials using a Phase Field Model**  
Müller - Gross - Schrade
- 18:10      **On molecular statics simulations of ferroelectric functional materials**  
Steinmann - Endres

### MS2: Applications of the Virtual Element Method

Monday, 23 | 16:30-18:30

Chair: Marini

Leonardo Room

- 16:30      **Virtual Element Methods: an overview**  
Brezzi - Beirao da Veiga - Marini - Russo
- 17:10      **The Virtual Element Method for large scale Discrete Fracture Network simulations: fracture-independent mesh generation**  
Berrone - Benedetto - Borio - Pieraccini - Scialò
- 17:30      **The Plane Wave Virtual Element Method for the Helmholtz Problem**  
Pietra - Perugia - Russo

- 17:50 **Virtual Element Methods for parabolic problems on polygonal meshes**  
Vacca
- 18:10 **A  $C^1$  virtual element method for the Cahn-Hilliard problem**  
Verani - Antonietti - Beirao Da Veiga - Scacchi

## MS3: Topological Defects in Solids

Monday, 23 | 16:30-18:30

Chair: Conti

Raffaello Room

- 16:30 **Discrete to continuum analysis of magnetic systems with continuous symmetries**  
Cicalese - Ruf - Solombrino
- 17:00 **Derivation of the line tension energy for dislocations in 3D**  
Garroni - Conti - Ortiz
- 17:30 **Quantization effects in dislocation energies**  
Luckhaus
- 18:00 **Energy scaling law for the regular cone**  
Olbermann

## MS4: Optimal Control and Hybrid Systems

Monday, 23 | 16:30-18:30

Chair: Ober-Blöbaum - Trenn

Donatello Room

- 16:30 **Sequential Action Control for Nonlinear and Hybrid Systems**  
Murphey
- 16:50 **Output Regulation in Differential Variational Inequalities using Internal Model Principle and Passivity-Based Approach**  
Tanwani
- 17:10 **Gene regulatory networks: equivalence between Utkin's and sigmoidal approach**  
Elia - Del Buono - Lopez

- 17:30 **On the value function of mixed-integer optimal control problems**  
Hante - Gugat
- 17:50 **Relaxing mixed integer optimal control problems using a time transformation**  
Leyendecker - Ringkamp - Ober-Blöbaum
- 18:10 **Optimal Energy-Based Control of Hybrid Systems with Applications to Robotic Walking**  
Sinnet - Ames

## MS5: Mechanics in an Interdisciplinary, Multiphysics Environment, Transforming Materials Sciences and Biology

Monday, 23 | 16:30-18:30

Chair: Hellmich - Wall

Leandro 1 Room

- 16:30 **Mechanics of biological interfaces under stretch and across scales: lipid bilayer membranes and epithelia**  
Arroyo
- 16:50 **The fiber reorientation problem revisited in the context of Eshelbian micromechanics: theory and computations**  
Morin - Avril - Hellmich
- 17:10 **Multiscale hierarchical mechanics in soft tissues**  
Marino - Vairo
- 17:30 **The theory of mechanobiological stability: on the theoretical foundations of mechanobiology in soft tissue**  
Cyron - Humphrey
- 17:50 **Coupling X-ray physics and engineering mechanics, for enhanced analysis of Computer Tomographic images**  
Hellmich - Dejaco - Blanchard
- 18:10 **Look different, better understand: computational multiphysics enhanced imaging and measuring in biomedicine**  
Wall - Schoeder - Roth - Kronbichler

## Young Researchers' Minisymposia Lectures

### YRMS1: Analysis, Applications and Approximation of Constrained PDEs

Monday, 23 | 16:30-18:30

Chair: Altmann

Leandro 2 Room

- 16:30     **Stable and efficient simulation of hyperbolic PDAEs describing flow networks**  
Huck - Jansen - Tischendorf
- 17:00     **Stochastic Modeling and Regularity of the Nonlinear Elliptic-Parabolic Magnetoquasistatic Equation**  
Römer - Schöps
- 17:30     **Hydrodynamic force elements: A PDAE approach**  
Fiedler - Arnold
- 18:00     **The Pressure Manifold in the Unsteady Navier-Stokes Equation and in Semi-Discretizations**  
Heiland

### YRMS2: Phase Field Modeling in Mechanics and Applied Mathematics

Monday, 23 | 16:30-18:30

Chair: Kuhn - Giesselmann

Leandro 3 Room

- 16:30     **On numerical schemes for phase-field models for electrowetting with electrolyte solutions**  
Metzger
- 17:00     **On elastic Cahn-Hilliard systems coupled with evolution inclusions for damage processes**  
Heinemann - Kraus
- 17:30     **Phase field modeling of ferroelectric materials with defects**  
Xu - Zuo - Ma

- 18:00 **Simulation of Atomic Force Microscopy for investigating BaTiO<sub>3</sub> and LiMn<sub>2</sub>O<sub>4</sub> nanostructures based on Phase Field Approach**  
Thai - Keip - Schröder - Amanieu - Rosato

## YRMS3: Discretization Aspects in PDE Constrained Optimization

Monday, 23 | 16:30-18:30  
Botticelli Room

Chair: Wollner

- 16:30 **Shape optimization by pursuing diffeomorphisms**  
Paganini - Hiptmair
- 16:50 **Fast Iterative Solvers for Discretizations of PDE-Constrained Optimization Problems**  
Pearson
- 17:10 **Finite element error estimates for Dirichlet boundary control problems on polygonal domains**  
Pfefferer - Apel - Mateos - Rösch
- 17:30 **Scaling Limits in Computational Bayesian Inversion**  
Schillings - Schwab
- 17:50 **A Posteriori Error Estimation for State-Constrained Optimal Control Problems**  
Steinig - Siebert - Rösch
- 18:10 **Optimal convergence order for control constrained optimal control problems**  
Wachsmuth - Schneider

## YRMS4: Co-/Sparsity, Inverse Problems and Compressive Imaging

Monday, 23 | 16:30-18:30  
Giotto Room

Chair: Petra - Weinmann

- 16:30 **Recovering overcomplete sparse representations from structured sensing**  
Needell - Kraher - Ward

- 17:10 **Computational Aspects of Sparse Recovery**  
Tillmann
- 17:30 **Joint reconstruction and segmentation from sparse Radon data**  
Frikel - Storath - Weinmann - Unser
- 17:50 **Empirical phase transitions in sparsity-regularized X-ray CT**  
Jørgensen
- 18:10 **Cospase models and recovery algorithms for inverse problems in acoustics and electro-encephalography**  
Bertin - Kitic - Albera - Gribonval

## YRMS5: Topics in Low-rank Tensor Approximation

Monday, 23 | 16:30-18:30

Chair: Vandereycken

Masaccio Room

- 16:30 **Finding low-rank bases of matrix subspaces**  
Uschmajew - Nakatsukasa - Soma
- 16:50 **Decoupling multivariate functions using tensor decompositions**  
Dreesen - Ishteva - Schoukens
- 17:10 **Soft Thresholding of Hierarchical Tensors and Its Application in Iterative Methods**  
Bachmayr - Schneider
- 17:30 **Tensor-structured approximation for the solution of differential equations**  
Kazeev
- 17:50 **Riemannian BFGS on the Tensor Train component space using an inherited tensor metric**  
Pfeffer - Schneider
- 18:10 **Preconditioned Riemannian optimization for low-rank tensor equations**  
Vandereycken - Kressner – Steinlechner



## Contributed Sections

### S01: Multi-body dynamics

**S01.1** Tuesday, 24 | 09:00-11:00  
Chair: Schiehlen Botticelli Room

- 09:00 **Impulse-based control of simple oscillators within the nonsmooth mechanics approach**  
Schindler - Mayet - Seiwald
- 09:20 **Learning Robot Force/Position Control for Repetitive High Speed Applications with Unknown Non-Linear Contact Stiffness**  
Parzer - Gattringer - Müller
- 09:40 **An Optimal Control Approach to the Simulation of Problems with Servo Constraints**  
Altmann - Heiland
- 10:00 **An explicit approach for time-optimal trajectory planning for kinematically redundant robots**  
Reiter - Springer - Gattringer - Müller
- 10:20 **A numerical method for the servo constraint problem of underactuated mechanical systems**  
Yang - Betsch - Altmann
- 10:40 **Active damping control for an underactuated multibody system**  
Burkhardt - Morlock - Seifried – Eberhard

**S01.2** Tuesday, 24 | 16:30-18:30  
Chair: Beitelschmid Botticelli Room

- 16:30 **Guideway based damping control of vehicle suspensions**  
Schiehlen

- 16:50     **Modelling a pushbelt variator**  
Grundl - Schindler - Rixen - Ulbrich - van der Velde - Yildiz
- 17:10     **Modal Analysis of Vehicle Power Trains**  
Haslinger - Offner - Sopouch
- 17:30     **Study on Real-Time Simulation of Elastic Multibody Systems with Application in Vehicle Dynamics**  
Schmitt - Seifried
- 17:50     **A mechanical model of a passive dynamic walker with unilateral viscoelastic contact formulation**  
Deppler - Lüdke - Fidlin
- 18:10     **Investigation of optimal bipedal walking gaits subject to different energy-based objective functions**  
Römer - Fidlin – Seemann

**S01.3**

Thursday, 26 | 09:00-11:00

Chair: Burkhardt

Botticelli Room

- 09:00     **Coupling Elastic Bodies with an Enhanced Craig-Bampton-like Scheme**  
Eberhard - Holzwarth
- 09:20     **Back-Transformation into Physical Configuration Space after Model Order Reduction onto a General Subspace**  
Beitelschmidt - Lein
- 09:40     **Topology Optimization of Flexible Bodies in Multibody Systems using the Floating Frame of Reference Approach**  
Seifried - Held - Moghadasi
- 10:00     **Nonexpansivity of the Newton's Cradle Impact Law**  
Leine - Winandy
- 10:20     **An annular Kirchhoff plate model tailored for rotating and non-rotating external loads**  
Heckmann - Kaiser

10:40 **Performance assessment of a trajectory-tracking approach for a manipulator with uncertainties using inverse fuzzy arithmetic**  
Walz – Hanss

**S01.4** Thursday, 26 | 16:30-18:30  
Chair: Seifried Botticelli Room

16:30 **Variational integrators for thermo-viscoelastic discrete systems**  
Kern - Romero - Groß

16:50 **Variational integrators of higher order for flexible multibody systems**  
Bartelt - Groß

17:10 **Error estimation approach for controlling the communication step size for semi-implicit co-simulation methods**  
Meyer – Schweizer

**S01.5** Friday, 27 | 09:00-11:00  
Chair: Ziegler Botticelli Room

09:00 **A Reproducible Excitation Mechanism for Analyzing Electric Guitars**  
Hanss - Bestle - Eberhard

09:20 **Transient amplification of maximum vibration amplitudes**  
Bonhage - Hentschel - Panning-v. Scheidt - Wallaschek

09:40 **Prox formulation of the cavitation problem in elastohydrodynamic lubrication contact**  
Krinner - Rixen

10:00 **Rigid body motion in a medium: data preparation for execution of experiments**  
Shamolin

## S02: Biomechanics

### S02.1

Tuesday, 24 | 09:00-11:00

Chair: Rammerstorfer

Leandro 3 Room

- 09:00 **A new fully explicit algorithmic strategy for the simulation of bone healing directly on computed tomography data**  
Diebels - Roland - Tjardes - Bouillon
- 09:20 **Evolution of Mechanical Properties in Tissues Undergoing Deformation-Related Fiber Remodeling Processes**  
Topol - Demirkoparan - Pence - Wineman
- 09:40 **Numerical Calculation of Fiber Orientation in Three-Dimensional Arterial Walls**  
Fausten - Balzani - Schröder
- 10:00 **Towards an accurate mechanical characterisation of human's aortic leaflets during the heart cycle**  
Morales Ortuno - Röhrle
- 10:20 **Towards effective properties of active muscle tissue via homogenisation**  
Bleiler - Ponte Castañeda - Röhrle
- 10:40 **Modeling of skin anisotropy directions for realistic finite element simulations of the female breast**  
Li - Jabareen - Raith - Itskov

### S02.2

Tuesday, 24 | 16:30-18:30

Chair: Diebels

Leandro 3 Room

- 16:30 **Experimental testing of transversely isotropic biological tissues - interaction between fibre and matrix material**  
Böl - Ehret - Leichsenring - Ernst
- 16:50 **A porous media approach for plantar tissue during gait**  
Boso - Sciumè - Schrefler

- 17:10 **A multi-scale time-dependent constitutive model of soft collagenous tissue**  
Hillgärtner - Linka - Itskov
- 17:30 **Extremal loading of soft fibrous tissues: multi-scale mechanics and constitutive modeling**  
Linka - Khiem - Itskov
- 17:50 **A Numerical Study of Fluid Flow in Articular Cartilage Based on the Darcy-Forchheimer Law**  
Carfagna – Grillo
- 18:10 **Forchheimer's Correction in Modelling Flow in Poroelastic Materials with Statistical Fibre-Reinforcement**  
Grillo - Carfagna – Federico

**S02.3**

Wednesday, 25 | 14:00-16:00

Chair: Böhl

Leandro 3 Room

- 14:00 **Relaxed incremental Variational Approach for Damage in Arteries**  
Balzani - Schmidt
- 14:40 **Computation of residual stress distributions and opening angles of 3D patient-specific arterial walls**  
von Hoegen - Schröder
- 15:00 **Phase-field modeling of fracture in biological tissues**  
Raina - Miehe
- 15:20 **Fluid structure interaction in hemodynamics**  
Heinlein - Balzani - Deparis - Fausten - Forti - Klawonn - Quarteroni - Rheinbach - Schörder
- 15:40 **Linking structural dynamics to the nonlinear viscoelasticity and fatigue mechanics in fibrin biopolymers**  
Kurniawan – Koenderink

**S02.4**

Wednesday, 25 | 16:30-18:30

Chair: Nackenhorst

Leandro 3 Room

- 16:30     **Mechanics of growing tumors: impact of modeling assumptions and boundary conditions on reliability of numerical results**  
Sciumè - Schrefler - Santagiuliana - Zavarise
- 16:50     **Tumor growth in agarose and collagen-agarose co-gels**  
Mills - Rudraraju - Garikipati - Kemkemer
- 17:10     **The role of the microvascular tortuosity in tumor transport phenomena**  
Penta - Ambrosi
- 17:30     **Towards the continuum-mechanical modelling of metastatic tumour growth in the brain**  
Schröder - Wagner - Ehlers
- 17:50     **Theoretical and numerical aspects in the multiphasic modelling of human brain tissue**  
Wagner - Ehlers
- 18:10     **On a Multi Scale and Multi Phase Model for the Description of Drug Uptake by the Human Liver**  
Werner - Ricken - Holzhütter - König - Dahmen – Dirsch

**S02.5**

Thursday, 26 | 09:00-11:00

Chair: Sciumè

Leandro 3 Room

- 09:00     **Mechanics of cell-division: A new continuum model for growth inhomogeneities**  
Bolea Albero - Böi
- 09:20     **A geometric approach to characterize rigidity in proteins**  
Budday - Leyendecker - van den Bedem
- 09:40     **Computational simulation of piezoelectric coating surrounding activated tooth implant**  
Shirazi Beheshtiha - Nackenhorst

- 10:00     **Coupling an active middle ear implant to the round window of the cochlea**  
Ziegler - Wahl - Eiber
- 10:20     **Eigenfrequencies of the reconstructed middle ear after tympanoplasty and stapedotomy corresponding to the case when the prosthesis is fixed**  
Slavashevich

## S03: Damage and fracture mechanics

### S03.1

Chair: Müller

Tuesday, 24 | 09:00-11:00

Leandro 2 Room

- 09:00     **Stabilizing the XFEM for static and dynamic crack simulations**  
          Löhnert
- 09:20     **Thermo-mechanical modeling of crack propagation in dynamically loaded elastomer specimens using a scaled boundary finite element approach**  
          Behnke - Kaliske
- 09:40     **Fitting stress intensity factors from crack opening displacements in 2D and 3D XFEM**  
          Schätzer - Fries
- 10:00     **On corner singularities in Reissner's theory of elastic plates**  
          Felger - Becker
- 10:20     **Crack propagation at bi-material interfaces**  
          Parmigiani – Alam

### S03.2

Chair: Müller

Tuesday, 24 | 16:30-18:30

Leandro 2 Room

- 16:30     **Global approaches for an accurate loading analysis at multiple cracks systems**  
          Judt - Ricoeur
- 16:50     **Crack initiation in elliptically notched plates**  
          Weißgraeber - Felger - Becker
- 17:10     **Phase-Field Modeling of Fracture in Anisotropic Media**  
          Teichtmeister - Miehe
- 17:30     **A non-isothermal phase-field model for damage in two-phase materials**  
          Radszuweit - Kraus



17:50 **A novel treatment of crack boundary conditions in phase field models of fracture**  
Strobl – Seelig

**S03.3** Wednesday, 25 | 14:00-16:00  
Chair: Becker Leandro 2 Room

14:00 **Phase-Field Modeling of Hydraulic Fracture**  
Mauthe - Miehe

14:20 **3D ductile crack propagation with the XFEM**  
Beese - Loehnert - Wriggers

14:40 **Numerical methods for crack loading analyses in quasicrystals**  
Wang - Ricoeur

15:00 **Application of a cohesive zone element for prediction of damages in laminated structures**  
Rezaei - Wulfinghoff - Kebriaei – Reese

**S03.4** Wednesday, 25 | 16:30-18:30  
Chair: Baixiang Xu Leandro 2 Room

16:30 **Macroscopic Damage modeling for Silicon Nitride**  
Ruck - Othmani - Lube - Khader - Kailer - Böhlke

16:50 **A regularization approach for damage models based on a displacement gradient**  
Schwarz - Junker - Hackl

17:10 **Investigation of an elastoplastic material model coupled to nonlocal damage in an implicit-gradient framework**  
Brepols - Wulfinghoff - Reese

17:30 **A three-dimensional progressive damage model for fiber reinforced composites with an implicit-explicit integration scheme**  
Maaß - Gruttmann

17:50 **Effects of a circular defect size and position on the damage progression in hybrid laminates under compressive loading**  
Tala-Ighil – Mokhtari

**S03.5** Thursday, 26 | 09:00-11:00  
Chair: Loehnert Leandro 2 Room

09:00 **3D modeling of crack percolation due to alkali-silica reaction in concrete RVEs**  
Cuba Ramos - Dunant - Molinari

09:20 **Numerical simulation of the fracturing processes in masonry arches**  
Invernizzi - Carpinteri - Accornero - Testone

09:40 **A damage-plasticity model to simulate the mode-II fatigue behavior of interfaces between thin adherends**  
Carrara - De Lorenzis

10:00 **Predicting delamination in multilayered CFRP laminates**  
Simon - Höwer - Reese

10:20 **Fatigue mechanisms of cord-rubber composites**  
Jha - Nackenhorst

10:40 **Determination of the fracture properties from size effect in ceramic-fibers-reinforced PMMA**  
Díaz – Mosler

**S03.6** Thursday, 26 | 16:30-18:30  
Chair: Invernizzi Leandro 2 Room

16:30 **On Anisotropic and Nonlocal Damage Models**  
Wulfinghoff - Reese - Brepols - Fassin

16:50 **Model Reduction and Clustering Techniques for Crash Simulations**  
Fehr - Grunert

17:10 **Mechanical properties of cold sprayed Ti- and Ni-based composites coatings**  
Silvello - Cavaliere

- 17:30     **Finite Element Method for the Vibration of cracked Beams with Varying Cross Section**  
Haskul - Kisa
- 17:50     **Growth of a substrate material damage as a result of waves localization**  
Abramian - Vakulenko

## S04: Structural mechanics

### S04.1

Tuesday, 24 | 09:00-11:00

Chair: Steinmann

Leonardo Room

- 09:00    **T-splines discretizations for large deformation contact problems**  
Dimitri - Zavarise
- 09:40    **Following forces as an inverse contact algorithm**  
Konyukhov - Schweizerhof - Izi
- 10:00    **Application of the virtual element method to non-conforming contact interfaces**  
Rust - Wriggers - Reddy
- 10:20    **Non-unique Equilibria of a Statically Indeterminate System with Coulomb Friction**  
Steiner
- 10:40    **Efficient computation of surface-dominated structures using isogeometric elements**  
Zimmermann – Sauer

### S04.2

Tuesday, 24 | 16:30-18:30

Chair: Altenbach

Leonardo Room

- 16:30    **Evaluation of a Finite Element Approach for Damping Determination**  
Hentschel - Bonhage - Panning-von Scheidt - Wallaschek
- 16:50    **Modeling of non-stationary vibration signals based on the modified Kronecker sequences**  
Girip - Munteanu
- 17:10    **A homotopy method for the eigenvalue analysis of circular saw blade with inner slits**  
Luo - Schmidt - Gaul
- 17:30    **Meta-structures for Cloaking Bending Waves**  
Gei - Colquitt - Brun - Movchan - Jones - Movchan

17:50 **Shrink fit with FGM-hub subject to heating and rotation**  
Arslan - Mack

18:10 **A projection approach to optimal control of elastic beam dynamics**  
Kostin

**S04.3** Wednesday, 25 | 14:00-16:00  
Chair: Klinkel Leonardo Room

14:00 **Energy-momentum conserving discretization of mixed shell elements for large deformation problems**  
Janz - Betsch

14:40 **The Strong Formulation Finite Element Method Applied to Structural Mechanics Problems**  
Tornabene - Fantuzzi - Baccocchi - Viola

15:00 **Weighted overconstrained least-squares mixed finite elements for hyperelasticity**  
Schwarz - Steeger - Schröder

15:20 **A stress-velocity least-squares mixed finite element formulation for incompressible elastodynamics.**  
Nisters - Schwarz - Schröder

15:40 **Comparison of a mixed least-squares formulation using different approximation spaces**  
Steeger - Schröder – Schwarz

**S04.4** Wednesday, 25 | 16:30-18:30  
Chair: Rammerstorfer Leonardo Room

16:30 **A surface oriented solid formulation based on a hybrid Galerkin-collocation method**  
Klinkel - Chen - Dornisch

16:50 **Application of Discontinuous Galerkin Finite Element Method for Discontinuities in Small Deformation Regimes**  
Bayat - Reese - Wulfinghoff

- 17:10 **A New Mixed Finite Element for the Analysis of Structures with Material and Geometric Nonlinearities**  
Nodargi - Bisegna
- 17:30 **Discussion of the Particle Finite Element Method in the Context of Strength of Materials**  
York Duran - Sator - Müller - Sabel
- 17:50 **Nonlinear SFEM with fluctuating input parameters**  
Caylak - Dridger - Mahnken
- 18:10 **A high-order enrichment strategy for the finite cell method**  
Joulaian – Düster

**S04.5**

Thursday, 26 | 09:00-11:00

Chair: Kaliske

Leonardo Room

- 09:00 **An efficient and robust Reissner-Mindlin shell formulation for isogeometric analysis**  
Dornisch - Müller - Klinkel
- 09:20 **Corotational flat triangular elements for the nonlinear analysis of thin shell structures**  
Caselli - Bisegna
- 09:40 **Flexure Hinge Mechanisms Modeled by Nonlinear Euler-Bernoulli-Beams**  
Friedrich - Lammering
- 10:00 **A layer-wise theory for the structural analysis of glass and photovoltaic laminates**  
Naumenko - Altenbach - Eremeyev
- 10:20 **A user-defined element based on a layer-wise theory for laminated glasses and photovoltaic panels**  
Eisenträger - Naumenko - Altenbach
- 10:40 **On a mathematical problem of cusped double-layered plates**  
Chinchaladze

**S04.6** Thursday, 26 | 16:30-18:30  
Chair: Miehe Leonardo Room

- 16:30 **A membrane finite element formulation for woven fabrics using the generalized polyconvex hyperelastic model**  
Khiêm - Jabareen - Itskov
- 16:50 **On the Mechanics of Ultralight Hollow Microlattices**  
Eidel
- 17:10 **Mechanical Analysis of Metallic SLM-Lattices on Small Scales: Finite Element Simulations versus Experiments**  
Didam - Eidel - Ohrndorf - Christ
- 17:30 **Investigation of elastoplastic effects of cables under large spatial deformation**  
Dörlich - Diebels - Linn
- 17:50 **Determination of a Constitutive Friction Law Using an Elastic-Plastic Half-Space Model**  
Beyer - Willner
- 18:10 **Application of fibre Bragg grating sensors for residual stress analysis**  
Hannusch - Stockmann – Ihlemann

**S04.7** Friday, 27 | 09:00-11:00  
Chair: Balzani Leonardo Room

- 09:00 **Kink banding in laminated composite structures**  
Völlmecke
- 09:20 **Interlaminar stress recovery for arbitrarily curved laminated shells**  
Winkler - Haller - Gerstmayr
- 09:40 **Optimization of two-layered steel/aluminum hollow cylinders under combined load**  
Apatay - Mack
- 10:00 **Experimental investigations on PP-PE foil specimens**  
Squazzo - Hartmann

- 10:20 **Stress concentration control in the problem of plane elasticity theory**  
Odishelidze - Criado Aldeanueva - Criado
- 10:40 **Stress analyses of multi-layered composite pipes subjected to internal pressure**  
Sülü – Temiz

**S04.8**

Friday, 27 | 11:30-13:30

Chair: Trovalusci

Leonardo Room

- 11:30 **A model reduction approach for hyperelastic materials based on Proper Orthogonal Decomposition**  
Hürkamp - Kaliske
- 11:50 **XFEM for Deformation Theory of Plasticity**  
Omerović - Fries
- 12:10 **Advanced FE-analysis of metal-to-metal seals considering fluid pressure penetration at two scales**  
Gorash - Dempster - Nicholls - Hamilton
- 12:30 **Investigations on clamping effects with Die-Less-Hydroforming-Structures**  
Metzger - Ruff - Ummenhofer
- 12:50 **On one contact problem of plane elasticity theory with partially unknown boundary**  
Tsintsadze - Odishelidze
- 13:10 **Frequency veering and mode degeneration of a rectangular disc**  
Brouet - Twiefel - Wallaschek



## S05: Nonlinear oscillations

### S05.1

Tuesday, 24 | 09:00-11:00

Chair: von Wagner

Caravaggio 1 Room

- 09:00     **Rotodynamics of Two-Pole Turbo Generators with Refined Modelling of the Unbalanced Magnetic Pull**  
Boy - Hetzler
- 09:20     **Stabilization of a rotating shaft by electromagnetic actuators**  
Przybylowicz
- 09:40     **Stability and bifurcation behaviour of a Laval-Rotor considering fluid forces in compliant liquid seals**  
Baeuerle - Hetzler
- 10:00     **Dynamic stability of composite rotating shafts with Brazier's nonlinearity**  
Tylikowski - Starczewski
- 10:20     **Synchronization effects in rotors partly filled with fluid**  
Keisenberg - Ostermeyer
- 10:40     **On the self-balancing of the planetary rotor**  
Drozdetskaya – Fidin

### S05.2

Tuesday, 24 | 16:30-18:30

Chair: Hanss

Caravaggio 1 Room

- 16:30     **Control of Nonlinearly Coupled Oscillators Using a Method of Averaging**  
Radisch - Kreuzer
- 16:50     **On some aspects of the dynamic behavior of the softening Duffing oscillator under harmonic excitation**  
von Wagner - Lentz
- 17:10     **1:3-Resonance in a Hopf-Hopf bifurcation**  
Steindl

17:30 **On the chaotic behavior of the non-ideal vibrating systems**  
Chiroiu – Dumitriu

**S05.3**

Wednesday, 25 | 14:00-16:00

Chair: Hanss

Caravaggio 1 Room

14:00 **Modeling and vibration analysis of rotors with hydrodynamic MF-film bearings**

Perek - Kurnik

14:20 **A DAE formulation for geared rotor dynamics including frictional contact between the teeth**

Jehle - Fidlin

14:40 **Adaptive fuzzy sliding mode controller and observer for a dive cell**

Bessa – Kreuzer - Krumm – Pick - Solowjow

15:00 **The Vibrational Behavior of Coupled Bladed Disks with Variable Rotational Speed**

Kaptan - Panning-von Scheidt - Wallaschek

15:20 **Multi-mode model of a piezomagnetoelastic energy harvester under random excitation**

Lentz - von Wagner

15:40 **Optimal impedance load of a bistable energy harvester**

Heymanns – Hagedorn

**S05.4**

Wednesday, 25 | 16:30-18:30

Chair: von Wagner

Caravaggio 1 Room

16:30 **On vibrations in non linear, forced, friction-excited systems**

Stender - Tiedemann - Hoffmann

16:50 **A finite element model for a soft robot equipped with a flexible limb**

de Payrebrune - O'Reilly

17:10 **On the influence of vibrations on macroscopic frictional contacts**

Hammerschmidt - von Wagner



17:30

**On the Effect of Contact Compliance on Vibrational Smoothing of Dry Friction**

Kapelke - Seemann

## S06: Material modelling in solid mechanics

### S06.1

Chair: Balzani - Ventura

Tuesday, 24 | 09:00-11:00

Tiziano Room

- 09:00     **A novel stabilization technique for X-FEM like enriched formulations**  
           Ventura - Rabino
- 09:40     **Automatic Implementation of Elasto-plastic Incremental Formulations at Finite Strains using Hyper-Dual Numbers**  
           Tanaka - Balzani - Schroeder
- 10:00     **Efficient time integration in multiplicative inelasticity**  
           Landgraf - Shutov - Ihlemann
- 10:20     **Towards a finite element simulation of coating by means of thermal spraying**  
           Berthelsen - Denzer - Menzel
- 10:40     **Modeling the moisture and temperature dependant material behavior of adhesive bonds**  
           Goldschmidt – Diebels

### S06.2

Chair: Hossain - Klinge

Tuesday, 24 | 16:30-18:30

Tiziano Room

- 16:30     **Determination of material parameters corresponding to viscoelastic curing polymers**  
           Klinge - Steinmann
- 17:10     **Towards modelling the curing process in particle-filled electro-active polymers**  
           Hossain - Steinmann
- 17:30     **FE-simulation of spatially graded gelation during adhesive's curing**  
           Rudolph - Ihlemann
- 17:50     **Characterisation of filled rubber with a pronounced nonlinear viscoelasticity**  
           Scheffer - Goldschmidt - Diebels

18:10 **A study on the influence of mechanical preconditioning on the fatigue behavior of rubber materials**  
Krause – Juhre

**S06.3** Wednesday, 25 | 14:00-16:00  
Chair: Keip - Xu Tiziano Room

14:00 **On the generation of soft magneto-electric effects through Maxwell interactions**  
Keip

14:40 **Numerical Aspects of Energy Relaxation-Based Magnetostriction Modeling**  
Buckmann - Kiefer - Bartel - Menzel

15:00 **Computational homogenization in micromagnetics**  
Sridhar - Keip - Miehe

15:20 **An atomistic scale analysis of ferroelectric nanodomain interfaces**  
Endres - Steinmann

15:40 **Analysis of Micro- and Macro-Instability Phenomena in Computational Homogenization of Finite Electro-Statics**  
Vallicotti – Miehe

**S06.4** Wednesday, 25 | 16:30-18:30  
Chair: Böhlke - Hartmann Tiziano Room

16:30 **Strain determination in full-field measurements using DIC**  
Hartmann - Sguazzo

17:10 **Inverse Parameter Identification for Orthotropic Elasto-Plastic Sheet-Steel**  
Soehngen - Willner

17:30 **Parameter Identification by Inverse Modelling of Biaxial Tensile Tests of Discontinuous Fiber Reinforced Polymers**  
Schemmann - Brylka - Kehrer - Müller - Böhlke

17:50 **The influence of a damping coefficient on a non-invasive strategy for inverse form-finding**  
Landkammer - Steinmann

18:10 **Direct and Inverse Identification of Composites with Microstructure**  
Yanakieva - Nikolov – Baltov

### S06.5

Wednesday, 25 | 16:30-18:30

Chair: Gambarotta - Lammering

Botticelli Room

16:30 **Modeling of Carbon Fiber Reinforced Plastics for Wave Propagation Analysis in Plates**  
Lammering - Hennings

17:10 **The Inversion of Hutchinson's Flow Rule**  
Kalisch - Bertram

17:30 **Shape control of piezolaminated thin-walled composite structures using nonlinear piezoelectric actuators**  
Rao - Schröder - Tarun

17:50 **On the sonic composites with scatterers made from auxetic material**  
Mosnegutu - Donescu

18:10 **Modeling of imperfect contact interfaces in sonic composites**  
Munteanu – Brisan

### S06.6

Thursday, 26 | 09:00-11:00

Chair: Bartel - Foti

Tiziano Room

09:00 **Optimal bounds from below of the critical load for elastic solids subject to uniaxial compression**  
Foti - Castellano - Fraddosio - Marzano - Piccioni

09:40 **Formation of microstructure in the plates under compression**  
Nguyen - Le - Koster

10:00 **A micromechanical model for the transformation induced plasticity in poly-crystalline steels**  
Waimann - Junker - Hackl

10:20 **A novel contribution to the relaxation of non-convex energy density functionals in the context of martensitic phase transformations**

Bartel - kiefer - Buckmann - Menzel

10:40 **Numerical Modeling of Functional Fatigue in NiTi Wires**

Osman - Bartel – Menzel

**S06.7**

Thursday, 26 | 09:00-11:00

Chair: Itskov

Masaccio Room

09:00 **Constitutive modeling of fiber-reinforced aerogels**

Rege - Dargazany - Itskov

09:20 **Characterization of short fiber reinforced polymers**

Röhrig - Diebels

09:40 **On fast and accurate modelling of distributed fibre directions in composites**

Goldberg - Ihlemann

10:00 **Meso-macro modelling of fiber-reinforced composites exhibiting elastoplastic deformation**

Bedzra - Simon - Reese

10:20 **A simplified approach to calculate adhesive joints in multi-material structures**

Blech - Falkenberg - Langer - Vietor

10:40 **On the natural Fiber (Maize) Composite material**

Ilie – Chiroiu

**S06.8**

Thursday, 26 | 16:30-18:30

Chair: Mahnken - Mosler

Tiziano Room

16:30 **On the variational formulation and implementation of Allen-Cahn- and Cahn-Hilliard-type phase field theories**

Bartels - Mosler

- 16:50 **A coupled phase-field - Cahn-Hilliard model for lower bainitic transformation**  
Düsing - Mahnken
- 17:10 **Martensitic Transformations and Damage: A Combined Phase Field Approach**  
Schmitt - Kuhn - Mueller
- 17:30 **Phase-field modeling of martensitic phase transformations in polycrystals coupled with crystal plasticity**  
Kochmann - Wulfinghoff - Reese - Svendsen
- 17:50 **Phase Field Modeling of Ductile Fracture**  
Aldakheel - Raina - Miehe
- 18:10 **Simulation of micro cutting considering crystal plastic deformations**  
Lohkamp - Schneider - Aurich - Kuhn – Müller

**S06.9**

Friday, 27 | 09:00-11:00

Chair: Bertram - Hackl

Tiziano Room

- 09:00 **Finite Gradient Elastoplasticity with Internal Constraints**  
Bertram - Glüge
- 09:40 **Equivalent Plastic Strain Gradient Theory with a Grain Boundary Yield Condition**  
Prahs - Bayerschen - Böhlke
- 10:00 **A Hardening Model based on a Finite-Deformation Gradient Crystal Plasticity Description: Formulation and Numerical Implementation**  
Pouriayevali - Xu
- 10:20 **Comparison of micromorphic, micropolar and microstrain continua**  
Leismann - Mahnken
- 10:40 **A variational viscosity-limit approach to the evolution of microstructures in finite crystal plasticity**  
Günther - Junker – Hackl



**S06.10** Friday, 27 | 09:00-11:00  
Chair: Ehret - Juhre Leandro 2 Room

- 09:00 **A link between the molecular statistical theory and Ogden's model of rubber elasticity**  
Ehret
- 09:40 **Primary and secondary instabilities in soft bilayered systems**  
Budday - Andres - Steinmann - Kuhl
- 10:00 **A physically motivated model for filled elastomers including strain rate and amplitude dependency in finite viscoelasticity**  
Juhre - Raghunath - Klüppel
- 10:20 **Phenomenological modelling for viscohyperelasticity: How to find suitable evolution laws in order to extend hyperelastic models?**  
Kröger - Juhre
- 10:40 **Thermoplastics under Long-Term Loading: Experiments and Viscoelastic-Viscoplastic Modeling**  
Zerbe - Schneider - Moosbrugger – Kaliske

**S06.11** Friday, 27 | 11:30-13:30  
Chair: Diebels Tiziano Room

- 11:30 **Modeling Dynamic Recrystallization in Polycrystalline Materials via Probability Distribution Functions**  
Nguyen - Isfahani - Hackl - Renner
- 11:50 **Chiral acoustic metamaterials: dispersive waves and low frequency band-gaps**  
Gambarotta - Bacigalupo
- 12:10 **Modelling Thermoplastic Material Behaviour of Dual-Phase Steels on a Microscopic Length Scale**  
Zeller - Löhnert - Wriggers
- 12:30 **Experimental and numerical characterization of the mechanical properties of Ni/Al hybrid metal foams from the atomic to the microscale**  
Chen - Jung - Heinze - Duester - Diebels

- 12:50 **Numerical analysis of Ni/Al hybrid metal foams using the finite cell method**  
Heinze - Jung - Chen - Diebels – Düster
- 13:10 **Mathematical problems in the theory of elasticity for materials with double porosity**  
Svanadze

**S06.12**

Friday, 27 | 11:30-13:30

Chair: Le

Leandro 2 Room

- 11:30 **Formation of grain boundaries in ductile single crystals at simple shear**  
Koster - Le - Nguyen
- 11:50 **Finite Element Simulation of the creep behavior of directionally solidified NiAl-9Mo**  
Albiez - Böhlke
- 12:10 **Direct connection of rheological elements at large strains: Application to multiplicative viscoplasticity**  
Kießling - Landgraf - Ihlemann
- 12:30 **On the thermodynamics of pseudo-elastic material models which reproduce stress softening effects**  
Naumann - Ihlemann
- 12:50 **An Intrinsic Geometric Formulation of the Equilibrium Equations in Continuum Mechanics**  
Eugster
- 13:10 **The perturbation method applied to tube drawing with floating plug**  
Ioan - Ioan

## S07: Coupled problems

### S07.1

Tuesday, 24 | 09:00-11:00

Chair: Xu

Raffaello Room

- 09:00 **Thermo-mechanical modelling of cellular ceramic composites by a multiphase approach of porous media**  
Jung - Diebels
- 09:20 **Thermo-mechanical computation of inelastic pavement structures under rolling tire loads**  
Wollny - Hartung - Kaliske
- 09:40 **Shock structure for macroscopic multi-temperature model of binary mixtures: comparison with kinetic models**  
Madjarevic
- 10:00 **Efficient Simulation of the Heat Flux Input in Moving Contacts**  
Partzsch - Beiteltschmidt
- 10:20 **Simulation of ice under mechanical and thermal load**  
Urban - Beiteltschmidt
- 10:40 **Reduction Approaches for Thermogasdynamical Lubrication Problems**  
Mahner - Lehn – Schweizer

### S07.2

Tuesday, 24 | 16:30-18:30

Chair: Mueller

Raffaello Room

- 16:30 **A phase-field theory for fracture in porous media**  
Luo - Ehlers
- 16:50 **Isogeometric Analysis of Mechanically Coupled Phase Segregation in Li-Ion Battery Electrode Particles**  
Zhao - Stein - Xu
- 17:10 **Eulerian large deformation formulation coupled with phase-field**  
Borukhovich - Steinbach

- 17:30 **A continuummechanical bi-phasic, two-scale model for thermal driven phase transition during solidification**  
Moj - Ricken - Steinbach
- 17:50 **Formability enhancement in deformed AZ31 magnesium sheets via texture evolution: experiments and phase-field study**  
Darvishi Kamachali - Kim – Steinbach

**S07.3**

Wednesday, 25 | 14:00-16:00

Chair: Kiefer

Raffaello Room

- 14:00 **Isogeometric Analysis of size-dependent behavior of Li-ion battery electrode particles**  
Stein - Xu
- 14:20 **Variational Principles and Stability of Diffusion in Hydrogels**  
Nateghi - Miehe - Mauthe
- 14:40 **Modeling of electrodynamic-mechanical coupling phenomena in smart magnetoelectroelastic materials**  
Merkel - Ricoeur
- 15:00 **Modeling of the Crosstalk Phenomenon by the Non-Stationary Maxwell Equations Coupled with the Circuit Equations**  
Niroomand Rad - Steinbrecher
- 15:20 **Velocity vector field optimization in bioventing**  
Notarnicola

**S07.4**

Wednesday, 25 | 16:30-18:30

Chair: Sauer

Raffaello Room

- 16:30 **A constitutive and damage model for high cycle fatigue of tetragonal ferroelectrics**  
Lange - Ricoeur
- 16:50 **Phase field simulation on mechanically coupled switching dynamics in nanomagnets**  
Yi - Xu

- 17:10 **The electrocaloric effect in ferroelectrics: nonlinear modeling and simulation**  
Wingen - Ricoeur
- 17:30 **Nonlinear numerical simulation of ferroelectric-ferromagnetic multifunctional composites**  
Avakian - Ricoeur
- 17:50 **Intrinsic symmetries in constitutive modeling of magneto-elastic materials**  
Dobovsek

**S07.5** Thursday, 26 | 09:00-11:00  
Chair: Jung Raffaello Room

- 09:00 **Correction of Characteristics of Subsystems of Torsionally Vibrating Complex Mechatronic Systems as Introduction to Solution of Their Inverse Task**  
Buchacz
- 09:20 **Modeling a Halfspace with Tunnel using a Coupled Integral Transform Method - Finite Element Method Approach**  
Hackenberg - Müller
- 09:40 **Fluid-Porous-Media Interaction: A Decoupled Solution Algorithm via Localised Lagrange Multipliers**  
Zinatbakhsh - Koch - Ehlers
- 10:00 **Simulation of vortex-induced oscillations within a shear-thinning liquid**  
Gundlach - Schlosser - Wunsch
- 10:20 **A numerical approach to the dynamics analysis of mooring lines**  
Stabile - Borri – Matthies

**S07.6** Thursday, 26 | 16:30-18:30  
Chair: Stein Raffaello Room

- 16:30 **Critical velocities for flow induced vibrations of a U-shaped belt**  
Strecha - Steinrück

- 16:50     **Hydroelastic stability of multi-plate structures interacting with flowing fluid**  
Lekomtsev - Bochkarev - Matveenko
- 17:10     **Validation with Numerical Simulations of a Simplified Model of a Hybrid Rocket Motor**  
Frunzulica - Stoia-Djeska
- 17:30     **Thermodynamically consistent description of mass transfer in a porous medium by a singular surface**  
Häberle - Ehlers
- 17:50     **A coupled multiphasic description of biological methane oxidation in landfill cover layers**  
Thom - Ricken - Bluhm - Gehrke – Denecke

**S07.7**

Chair: Ricoeur

Friday, 27 | 09:00-11:00

Raffaello Room

- 09:00     **Modeling, Simulation and Parameter Identification for Rate-Dependent Magnetoactive Polymer Response**  
Kiefer - Haldar - Menzel
- 09:40     **On electrostatic-viscoelastic simulation of dielectric actuators**  
Schlögl - Leyendecker
- 10:00     **Microscopic modeling and finite element simulation of magnetorheological elastomers**  
Metsch - Spieler - Kästner
- 10:20     **Harvesting energy with a cone-type dielectric elastomer generator**  
Bortot - Gei
- 10:40     **Modeling of thermo-electro-mechanical coupling effects in ionic electroactive polymers within the Theory of Porous Media**  
Serdas - Bluhm – Schröder

**S07.8**

Friday, 27 | 11:30-13:30

Chair: Ricken

Raffaello Room

- 11:30     **Deformation and interaction of surface energy driven systems**  
          Sauer - Duong
- 12:10     **Parallel solution of volumetrically coupled multi-field problems using an Abaqus-PANDAS software interface**  
          Schenke - Ehlers
- 12:30     **Application and modification of the POD Method and the POD-DEIM for model reduction in porous-media simulations**  
          Fink - Ehlers
- 12:50     **NURBS-based Approaches in Fluid Flow Simulations**  
          Elgeti - Stavrev - Hosters - Behr
- 13:10     **Numerical Approaches towards Plasticity**  
          Schröder - Kuhl

## S08: Multiscales and homogenization

### S08.1

Chair: Boso

Thursday, 26 | 09:00-11:00

Giotto Room

- 09:00 **A two scale phase field model for elastic shape optimization**  
Tölkes
- 09:20 **Study on Statistically Similar RVEs for real microstructures based on different statistical descriptors**  
Scheunemann - Balzani - Brands - Schröder
- 09:40 **Polynomial shape functions on the logarithmic space: the LogFE method**  
Schröppel - Wackerfuß
- 10:00 **Convergence Properties of GMRES for FFT-based Galerkin Homogenization of Periodic Media**  
Mishra - Vond\v{r}ejc - Zeman
- 10:20 **A two-scale homogenisation approach for fluid saturated porous media**  
Bartel - Ricken - Schröder
- 10:40 **An Extended Cascade Micromechanics Model for the Effective Diffusivity of Porous Materials accounting for Pore-Size Distribution**  
Timothy – Meschke

### S08.2

Chair: Loehnert

Thursday, 26 | 16:30-18:30

Giotto Room

- 16:30 **Grain-scale-based simulation of granular material**  
Bidier - Ehlers
- 16:50 **Materials design of elastic properties of multiphase polycrystalline composites using model functions**  
Lobos - Yuzbasioglu - Böhlke
- 17:10 **A coupled two-scale shell model for comb-like sandwich structures**  
Heller - Gruttmann



- 17:30 **Dual-Phase Steel Simulations Based on Representative Three-Dimensional Microstructures**  
Brands - Balzani - Scheunemann - Schröder
- 17:50 **Computational characterization of magneto-electric composites: the role of ferroelectric pre-polarization**  
Labusch - Schröder - Lupascu - Keip
- 18:10 **Electro- and Magneto-active Soft Composites with Periodic and Random Microstructures**  
Rudykh

### S08.3

Friday, 27 | 09:00-11:00

Chair: Sauer

Giotto Room

- 09:00 **Multi-scale modeling of beam-like structures: A new boundary condition concept for the RVE**  
Klarmann - Gruttmann
- 09:20 **Micromechanical modeling of textile materials by means of 1-D structural elements**  
Mehnert - Fillep - Mergheim - Steinmann
- 09:40 **Experimental investigation and approximation of the temperature-dependent stiffness of short-fibre reinforced polymers**  
Kehrer - Müller - Brylka - Böhlke
- 10:00 **Coupling atomistic and continuum models with nodes having translational and rotational degrees of freedom**  
Niederhöfer - Wackerfuß
- 10:20 **Representative Volume Element Size Convergence for a Parallel Fiber Bundle Micro-Model**  
Stapleton - Appel – Reese

### S08.4

Friday, 27 | 11:30-13:30

Chair: Loehnert

Giotto Room

- 11:30 **Comparison of the Interface Orientation Distribution Average to RVE simulations**  
Glüge - Kalisch

- 11:50     **Continuum modeling of material interfaces and surfaces based on molecular statics computations**  
Sievers - Mosler
- 12:10     **A multiscale contact homogenization approach for hysteresis friction of rubber on rough surfaces**  
Wagner - Wriggers - Klapproth - Prange
- 12:30     **Reduced order nonlinear homogenization of composites with cohesive interfaces**  
Fritzen - Leuschner
- 12:50     **Use of Gurtin-Murdoch model in predicting effective properties of nanocomposites with application to nanoporous gold**  
Nazarenko - Bargmann - Stolarski

## S09: Flows and transition

### S09.1

Tuesday, 24 | 09:00-11:00

Chair: Robinet

Small Tiziano Room

- 09:00     **Stability analysis of the flow past miniature vortex generators in a Blasius boundary layer**  
Siconolfi - Camarri - Fransson
- 09:40     **P-norm optimal 3D perturbations in the Poiseuille flow**  
Farano - Cherubini - Robinet - De Palma
- 10:00     **Unified description of bifurcation processes associated with laminar boundary-layer separation**  
Kluwick - Braun
- 10:20     **Investigation of the roughness-induced transition: linear and non-linear optimal perturbations**  
Cherubini - Loiseau - De Palma - Robinet
- 10:40     **Extreme event detection in near-wall turbulence using reflection-encoded readout of micropillar arrays**  
Bruecker - Hegner - Mikulich - Axtmann – Rist

### S09.2

Tuesday, 24 | 16:30-18:30

Chair: Brücker

Small Tiziano Room

- 16:30     **Spreading of Linear Disturbances in Boundary Layers at Mach Number Five and the Effect of Wall Cooling**  
Jocksch - Kleiser
- 17:10     **Receptivity and non-uniqueness of turbulent boundary layer flows**  
Scheichl
- 17:50     **Axisymmetric flow over a sudden expansion in an annular pipe**  
Beladi - Kuhlmann
- 18:10     **The Clebsch transformation and its capabilities towards fluid and solid mechanics**  
Scholle - Marner



18:30

**Potential theory application to superfluidic multiphase flows**

Brazaluk

## S10: Turbulence and reactive flows

### S10.1

Tuesday, 24 | 09:00-11:00

Chair: Pitsch

Caravaggio 3 Room

- 09:00     **On the universality of small-scale statistics in turbulence**  
          Schumacher
- 09:40     **Scaling in turbulent canonical flows - a ubiquitous property of all moments?**  
          Oberlack - Rosteck - Avsarkisov - Mehdizadeh - Hoyas - Waclawczyk
- 10:00     **NO<sub>x</sub> formation in premixed flames: a direct numerical simulation study**  
          Pitsch - Trisjono - Gibelhaus
- 10:20     **High-resolution LES of the Cambridge Stratified Flame**  
          Kempf - Proch - Domingo - Vervisch
- 10:40     **A Flamelet Progress Variable model for compressible reacting flows**  
          Coclite - Pascazio - De Palma

### S10.2

Tuesday, 24 | 16:30-18:30

Chair: Kempf

Caravaggio 3 Room

- 16:30     **Assessment of subgrid-scale models for large-eddy simulation of complex flows**  
          Nicoud - Baya Toda - Truffin - Bruneaux - Cabrit
- 17:10     **Assessment of non-linear  $k$ - $\epsilon$  turbulence models for the prediction of wind flow around isolated buildings and multiple obstacles**  
          Parente - Moonens
- 17:30     **Simulation of wake effects in windfarms using an Actuator Disk implementation**  
          Hornung - Class - Viellieber
- 17:50     **Numerical Simulation of Continuous and Pulsed Film Cooling at the leading edge of a symmetrical turbine blade**  
          Nemdili - Azzi - Dellil
- 18:10     **Coarse-Grid-CFD for the Thermal Hydraulic Investigation of Rod-**

## Bundles

Viellieber – Class

### S10.3

Thursday, 26 | 16:30-18:30

Chair: Salvetti

Leandro 3 Room

- 16:30 **Particles in Turbulence: Macro- Consequences from Micro- Interactions**  
Soldati
- 17:10 **An efficient numerical method for fully resolved particle simulations on high-performance computers**  
Schneiders - Grimm - Meinke - Schröder
- 17:30 **A stochastic SGS model for Lagrangian particle tracking in large-eddy simulation velocity fields**  
Salvetti - Innocenti - Chibbaro - Marchioli - Soldati
- 17:50 **Budget analysis of the kinetic energy for bubbly flows**  
Santarelli - Roussel - Fröhlich
- 18:10 **Asymptotic solutions of an extended Korteweg-de Vries equation describing solitary waves with weak and strong downstream decay in turbulent open-channel flow**  
Müllner – Schneider

### S10.4

Friday, 27 | 09:00-11:00

Chair: Salvetti

Leandro 3 Room

- 09:00 **Recent results in isotropic turbulence decay theory**  
Sagaut - Meldi - Mons
- 09:40 **Numerical simulation of dense gas compressible homogeneous isotropic turbulence**  
Sciacovelli - Cinnella
- 10:00 **High Reynolds number effects on turbulent scalings in compressible channel flow**  
Modesti - Pirozzoli - Bernardini
- 10:20 **Effect of outer stratification inside the inner region of a convective**

**boundary layer**

Mellado - Garcia - van Heerwaarden

10:40 **Reynolds-analogy factor and new formulations for the temperature defect law for turbulent boundary layers on a plate**

Vigdorovich

**S10.5**

Friday, 27 | 11:30-13:30

Chair: Kempf

Leandro 3 Room

11:30 **Experimental and numerical studies of active and passive control of combustion instabilities**

Poinsot - Bauerheim - Staffelbach - Gicquel

12:10 **LES of high-frequency transverse combustion instabilities in complex combustion chambers**

Ghani - Poinsot - Maestro - Gicquel

12:30 **Ignition and mixing in shock-bubble interaction with chemical reactions**

Diegelmann - Tritschler - Hickel - Adams

12:50 **Large-eddy simulations of controlled wake flows using a penalty model of synthetic micro-jet**

Peres - Pasquetti

13:10 **Computational Aeroacoustics of Subsonic and Supersonic Impinging Jets**

Sesterhenn - Wilke

## S11: Interfacial flows

### S11.1

Wednesday, 25 | 14:00-16:00

Chair: Marchioli

Small Tiziano Room

- 14:00 **Simulating Free-Surface Flows with Moving Boundaries: A Combination of an Interface-Tracking and an Interface-Capturing Approach**  
Frings - Behr - Elgeti
- 14:20 **Towards higher-order XFEM for interfacial flows**  
Fries
- 14:40 **Numerical Modelling of Laser-Induced Cavitation Bubbles with a Finite Volume Method**  
Lechner - Reuter - Mettin - Lauterborn - Koch - Köhler
- 15:00 **A comparison of viscoelastic and empirical rheological models in context of squeeze flows**  
Descher - Wünsch
- 15:20 **On the implementation of free-slip interfaces for the immersed boundary method**  
Kempe – Fröhlich

### S11.2

Wednesday, 25 | 16:30-18:30

Chair: Brenner

Small Tiziano Room

- 16:30 **Linear stability of a thin non-isothermal droplet spreading on a rotating disk**  
Boettcher - Externbrink
- 16:50 **A circulating gravity wave in a cylindrical tank**  
Steinrück
- 17:10 **Experiments beyond the limits of Nusselt theory: The linear stability of gravity-driven films over undulated inclines**  
Schörner - Reck - Aksel



17:30 **Continuous size-dependent separation of blood components from human whole blood samples in microfluidic spirals**

Sprenger - Dutz - Schneider - Odenbach - Häfeli

17:50 **Modeling and simulation of mobile jet agitator for a biogas plant**

Alimi – Wünsch

**S11.3**

Thursday, 26 | 09:00-11:00

Chair: Marchioli

Small Tiziano Room

09:00 **Interaction of a finite-size particle with a wall**

Romanò - Kuhlmann

09:20 **The magnetoviscous effect of a biocompatible ferrofluid diluted in sheep blood**

Nowak - Odenbach

09:40 **The anisotropy of the magnetoviscous effect in a magnetite ferrofluid with weak interparticle interactions**

Linke - Odenbach

10:00 **An innovative phase transition modeling for reproducing cavitation through a five-equation and seven-equation models and complex equation of state**

Rodio - Congedo - Abgrall

10:20 **Numerical investigation of a liquid displacing a gas in thin porous layers**

Neumann - Boettcher - Gödeke - Ehrhard

10:40 **Mechanisms for wave generation in countercurrent air-water turbulent flows**

Zonta - Onorato – Soldati

**S11.4**

Thursday, 26 | 16:30-18:30

Chair: Brenner

Small Tiziano Room

16:30 **Diffuse interface models for locally inextensible vesicles**

Aland - Lowengrub - Voigt

- 16:50     **Polymer Devolatilization in a Rotating Apparatus**  
Hirschfeld - Hermann - Wunsch
- 17:10     **Gas Bubbles in Micro-Capillaries - Hydrodynamics and Mass Transfer**  
Lakshmanan - Ehrhard
- 17:30     **Simulation of mass transfer at free liquid/liquid interfaces**  
Heckmann - Ehrhard - Lakshmanan
- 17:50     **Three-phase contact line pinning at structured surfaces by molecular dynamics simulation**  
Horsch - Becker - Kohns - Hasse
- 18:10     **New density based OpenFOAM solver with a stochastic fields approach for two phase flow**  
Ranft - Class - Jordan

## S12: Waves and acoustics

### S12.1

Tuesday, 24 | 09:00-11:00

Chair: Sesterhenn

Donatello Room

- 09:00     **Propagation of acoustic waves in a turbulent boundary layer**  
          Gloerfelt
- 09:40     **Non-destructive testing of porous media by means of sound wave analysis**  
          Albers
- 10:00     **Calculation of the effective speed of sound in corrugated pipes by multiple scales**  
          Russo - Fabre - Giannetti - Luchini
- 10:20     **Numerical Calculation of Acoustic Sources for the Landing Gear of Aeroplane during Take-off and Landing**  
          Rasuo - Jazarevic
- 10:40     **Forward and Inverse Viscoacoustic Modelling in a Tunnel Environment**  
          Musayev - Hackl – Baitsch

### S12.2

Tuesday, 24 | 16:30-18:30

Chair: Manhart

Donatello Room

- 16:30     **On numerical simulation of tsunami run-up on shore**  
          Shokina
- 16:50     **Potential flow simulations of Peregrine-type deep water surface gravity wave packets**  
          Wenzel - Bünte - Hoffmann
- 17:10     **Application of variational-asymptotic method to modulation theory**  
          Nguyen - Le
- 17:30     **A novel approach to mode - tracing in SBFEM - Simulations: Higher-order Taylor- and Padeapproximation**  
          Krome - Gravenkamp

17:50

**Numerical modeling of a sub-sonic roll-over load along a rods skin**

Weber - Zastrau - Löpitz - Balzani

## S14: Applied analysis

### S14.1

Tuesday, 24 | 09:00-11:00

Chair: Abels

Caravaggio 4 Room

- 09:00    **Weak solution to certain problem in fluid mechanics**  
Feireisl
- 09:40    **A low volume-fraction limit for martensic microstructures in shape-memory alloys**  
Diermeier
- 10:00    **Homogenization of layered structures with rigid components in single-slip finite elastoplasticity**  
Christowiak - Kreisbeck
- 10:20    **Homogenization for dislocation based gradient visco-plasticity**  
Nesenenko
- 10:40    **On the use of potential fields in fluid mechanics**  
Marner – Scholle

### S14.2

Thursday, 26 | 09:00-11:00

Chair: Rossi

Caravaggio 4 Room

- 09:00    **Well-Posedness and Stability for some Volume-Preserving Curvature Flows with Boundary Contact or Triple Junctions**  
Abels - Arab - Garcke - Müller
- 09:40    **Nonlocal Cahn-Hilliard equation with a reaction term**  
Melchionna - Rocca
- 10:00    **Well-posedness and optimal control of Allen-Cahn type equations with singular potentials and dynamic boundary conditions**  
Calatroni - Colli
- 10:20    **Relaxation in nonlinear elasticity with constraints on the determinant**  
Dolzman - Conti

10:40 **A Linear Scale-Space Theory for Continuous Nonlocal Evolutions**  
Cárdenas - Weickert – Schaeffer

**S14.3** Thursday, 26 | 16:30-18:30  
Chair: Thomas Caravaggio 4 Room

16:30 **Rate-independent systems with viscosity and inertia -- Evolutionary Gamma-convergence**  
Thomas - Rossi

17:10 **Analysis of a gradient enhanced damage model**  
Susu - Meyer

17:30 **Mixed-growth plasticity and generalized rigidity**  
Ginster

**S14.4** Friday, 27 | 09:00-11:00  
Chair: Feireisl Caravaggio 4 Room

09:00 **New results on Cahn-Hilliard-Navier-Stokes systems with nonlocal interactions**  
Frigeri

09:40 **Wulff shape and isoperimetric characterization of crystals**  
Piovano

10:00 **Effective Maxwell equations in a geometry with flat rings of arbitrary shape**  
Lamacz - Schweizer

10:20 **A line-tension energy for dislocation networks on several slip planes**  
Gladbach

## S15: Applied stochasticity

### S15.1

Tuesday, 24 | 09:00-11:00

Chair: Bucher

Giotto Room

- 09:00     **Efficient Bayesian analysis of rare events in numerical models**  
          Straub - Betz - Papaioannou
- 09:20     **Polynomial chaos approach for tuned bladed rotors with geometric modification**  
          Koebelé-Cousquer - Proppe
- 09:40     **Damage models described by uncertain parameters**  
          Sarfaraz - Matthies
- 10:00     **Uncertainty quantification for linear elastic bodies with fluctuating input parameters**  
          Dridger - Caylak - Mahnken
- 10:20     **Probabilistic Sensitivities for Fatigue Using Adjoint Methods**  
          Saadi
- 10:40     **Irreversible material behaviour under presence of uncertainty**  
          Rosic – Matthies

### S15.2

Tuesday, 24 | 16:30-18:30

Chair: Di Paola

Giotto Room

- 16:30     **Jump Phenomena and Bifurcations in Stochastic Vehicle-Road Dynamics**  
          Wedig
- 17:10     **Regional Frequency Analysis of extreme rainfall events in Tuscany (Italy)**  
          Chiarello - Caporali - Matthies
- 17:30     **On Gaussian approximation of the strength of Daniels' bundle with brittle Weibull fibers**  
          Sadilek - Vorechovsky

17:50 **Best practice in metamodeling for data derived from civil engineering applications**  
Steiner - Lahmer

18:10 **Asymptotic sampling - a tool for efficient reliability computation in high dimensions**  
Bucher

**S15.3** Wednesday, 25 | 14:00-16:00  
Chair: Cinnella Giotto Room

14:00 **Polynomial Chaos and the Heave Motion of a Cylinder in Random Seas**  
Solowjow - Kreuzer

14:20 **Stochastic quantification of the impact of uncertainty in inlet conditions on the aerodynamics of a 5:1 rectangular cylinder**  
Mariotti - Salvetti - Shoeibi Omrani - Witteveen

14:40 **A Bayesian approach for the quantification of parametric and model-form uncertainties in dense-gas flow models**  
Merle - Cinnella

15:00 **Investigation of cavitation and turbulence models uncertainties for cavitating flows**  
Congedo - Rodio - Goncalves

15:20 **Influence of Uncertainties of the Aerodynamical Parameters on the Simulation Model for a Civil Aircraft with Active High Lift System**  
Friedman - Diekmann - Matthies

15:40 **Stochastic quantification of the effects of inlet velocity conditions on the dynamics of spatially evolving mixing layers**  
Meldi - Sagaut - Salvetti

**S15.4** Wednesday, 25 | 16:30-18:30  
Chair: Straub Giotto Room

16:30 **Solution of the First passage problem by Path Integration for normal, Poissonian, and alpha-stable white noise**  
Di Paola - Pirrotta - Bucher



17:10

**Adaptation and Enhancement of Generalized Polynomial Chaos for Industrial Applications**

Glaser - Petridis - Heuveline

## S16: Optimization

### S16.1

Chair: Congedo

Tuesday, 24 | 09:00-11:00

Caravaggio 2 Room

- 09:00     **Construction of a Magnet as an Absolute Positioning Scale**  
Mojsic - Sokol - Ludszuweit - Fügenschuh
- 09:20     **Control of water reservoirs aeration process**  
Abdelwahed
- 09:40     **Virtual Process Design in Combined Electromagnetic-Classical Forming Processes: Optimization of Current Parameters**  
Rozgic - Kiliclar - Stierner - Reese
- 10:00     **Methods with Successive and Parallel Approximations of Inverse Operator for the Nonlinear Least Squares Problem**  
Iakymchuk – Shakhno

### S16.2

Chair: Schmidt

Tuesday, 24 | 16:30-18:30

Caravaggio 2 Room

- 16:30     **Geometry Optimization of Branched Sheet Metal Structures with a Globalization Strategy by Adaptive Cubic Regularization**  
Göllner - Ulbrich
- 17:10     **Multidimensional parametrization of microcells in two scale optimization with sparse grid interpolation**  
Hübner - Stingl
- 17:30     **A staggered approach to structural shape and topology optimization**  
Riehl - Steinmann
- 17:50     **On curvature control in node-based shape optimization**  
Schmitt - Steinmann
- 18:10     **Optimizing Extrusion Dies with Profile Shape as an Objective Function**  
Siegbert - Behr – Elgeti

**S16.3**

Wednesday, 25 | 14:00-16:00

Chair: Schmidt

Caravaggio 2 Room

- 14:00     **Robust optimization of trusses under dynamic loads via nonlinear semidefinite programming**  
Kuttich - Ulbrich
- 14:40     **About the design of morphing airfoils under uncertainties**  
Fusi - Quaranta - Guardone - Congedo
- 15:00     **Robust Design using classical optimization**  
Erschen - Zimmermann
- 15:20     **Optimization of the double sided spiral groove thrust bearing: A comparison to approximate analytical solutions**  
Lehn - Schweizer
- 15:40     **Multi-criteria optimisation of the vibro-isolation properties**  
Krzyżyński - Maciejewski

## S17: Applied and numerical linear algebra

### S17.1

Wednesday, 25 | 14:00-16:00

Chair: Guettel

Caravaggio 3 Room

- 14:00 **Designing rational filter functions for solving eigenvalue problems by contour integration**  
Van Barel
- 14:40 **Parallel Bidiagonal SVD via the Method of Multiple Relatively Robust Representations**  
Winkelmann - Bientinesi
- 15:00 **A Hessenberg reduction algorithm for diagonal plus low rank matrices**  
Robol - Bini
- 15:20 **An extended Hessenberg form for Hamiltonian matrices**  
Ferranti - Iannazzo - Mach - Vandebril
- 15:40 **Rank--revealing decomposition via block anti--triangular factorization**  
Mastronardi - Van Dooren

### S17.2

Wednesday, 25 | 16:30-18:30

Chair: Mastronardi

Caravaggio 3 Room

- 16:30 **On complex  $J$ -symmetric eigenproblems**  
Fassbender - Yang - Benner
- 17:10 **Nonlinear eigenvalue problem expressed in Hermite basis**  
Shayanfar - Fassbender
- 17:30 **Backward error of polynomial eigenvalue problems solved by linearization**  
Lawrence - Van Barel - Van Dooren
- 17:50 **IgA vs. FEA in the Spectral Approximation: Symbol-Based Analysis**  
Garoni - Hughes - Manni - Reali - Serra-Capizzano - Speleers

18:10 **How to compute efficiently the Markovian Joint Spectral Radius?**  
Cicone - Guglielmi – Protasov

**S17.3** Thursday, 26 | 16:30-18:30  
Chair: Mastronardi Masaccio Room

16:30 **On Krylov subspace methods for the time-fractional Schrödinger equation**  
Popolizio - Garrappa - Moret

16:50 **Stability-Preserving Parametric Model Reduction by Matrix Interpolation using Invariance Properties of Krylov Subspaces**  
Barthlen - Lang

17:10 **Comparison of polynomial Krylov methods with limited memory consumption for approximating Stieltjes matrix functions**  
Schweitzer - Güttel

17:30 **Orthogonal projection vs. Oblique projection in Krylov subspace recycling**  
Bozovic - Bolten - Frommer

17:50 **A new approach for preconditioning discontinuous Galerkin discretizations**  
Hajian - Gander

18:10 **Rational least squares approximation via RKFIT**  
Güttel – Berljafa

**S17.4** Friday, 27 | 09:00-11:00  
Chair: Serra Capizzano Masaccio Room

09:00 **A fast nonstationary preconditioning strategy for ill-posed problems, with application to image deblurring**  
Donatelli

09:40 **Iterated fractional Tikhonov regularization**  
Bianchi - Buccini - Donatelli - Serra-Capizzano

10:00 **Spectral behavior of preconditioned non-Hermitian multilevel block Toeplitz matrices with matrix-valued symbol**

Sesana - Donatelli - Garoni - Mazza - Serra-Capizzano

10:20 **Local Fourier Analysis of Pattern Structured Operators**

Rittich - Bolten - Kahl

10:40 **Fast Recovery and Approximation of Hidden Cauchy Structure**

Luce – Liesen

**S17.5**

Friday, 27 | 11:30-13:30

Chair: Serra Capizzano

Masaccio Room

11:30 **Parallel Tensor Sampling**

Grasedyck - Loebbert

12:10 **Multigrid methods for tensor structured problems**

Sokolovic - Bolten - Kahl

12:30 **Hierarchical tensor approximation of parameter-dependent PDEs**

Ballani

12:50 **On the block and global methods for linear systems with multiple right hand sides**

Rashedi - Frommer - Ebadi

## S18: Numerical methods for differential equations

### S18.1

Wednesday, 25 | 14:00-16:00

Chair: Munz

Botticelli Room

- 14:00 **Well-Balanced, Entropy Stable Discontinuous Galerkin Spectral Element Method for the Shallow Water Equations**  
Winters - Gassner
- 14:40 **An Enhanced Time-Discontinuous Galerkin Method for Rotating Geometries such as Artificial Blood Pumps**  
Hassler - Pauli - Behr
- 15:00 **A posteriori error estimates for IMEX schemes**  
Giesselmann
- 15:20 **Well balanced ALE: on time dependent mesh adaptation for Shallow Water flow**  
Arpaia - Ricchiuto
- 15:40 **Computation of state variables of one-dimensional non-stationary pipe flow at orifices on pipe ends**  
Niessner

### S18.2

Thursday, 26 | 09:00-11:00

Chair: Rohde

Caravaggio 1 Room

- 09:00 **An adaptive space-time discontinuous Galerkin method for Maxwell's equations**  
Wieners - Findeisen - Dörfler
- 09:40 **Tracking-Type Finite-Volume Schemes for Phase Transition Problems**  
Wiebe
- 10:00 **Coupling Surface and Subsurface Flows**  
Magiera
- 10:20 **Multigrid preconditioning for time-periodic Navier--Stokes problem**  
Hupp - Obrist - Arbenz

10:40 **Online Parameter Identification for Traffic Simulation via Lagrangian Sensing**  
Thonhofer – Jakubek

**S18.3** Thursday, 26 | 16:30-18:30  
Chair: Munz Caravaggio 1 Room

16:30 **Robust Identification of Parametric Radiation Force Models via Impulse Response Fitting**  
Hatecke - Krüger

16:50 **Numerical simulation for wine fermentation based on IDEs**  
Schenk - Schulz

17:10 **Improving real-time capability of linearly-implicit solvers using structural information**  
Loderer - Bertsch - Heuveline

17:30 **Interpolatory Model Reduction for Quadratic Bilinear Descriptor Systems**  
Ahmad - Feng - Benner

17:50 **A joint IMEX-MOR approach for Water Networks**  
Jansen - Grundel

18:10 **Upwind Based Parameter Uniform Convergence Analysis for Two Parametric Parabolic Convection Diffusion Problems by Moving Mesh Methods**  
Das – Mehrmann

**S18.4** Friday, 27 | 09:00-11:00  
Chair: Wieners Caravaggio 1 Room

09:00 **Adaptive FEM with goal-oriented error estimation and an approximation of the dual problem for inelastic problems**  
Widany - Mahnken

09:20 **An Adaptive Local Basis for Elliptic Problems with Complicated Discontinuous Coefficients**  
Weymuth - Sauter



- 09:40     **Error measurement and enhanced FEM for phase field modeling**  
          Muench
- 10:00     **Interior penalty finite element methods for high-order local boundary conditions**  
          Schmidt - Diaz - Heier
- 10:20     **Generalized approximated regular boundary element method**  
          Yevdokymov
- 10:40     **Boundary element application to non-linear boundary integral equations**  
          Poliakov

**S18.5**

Friday, 27 | 11:30-13:30

Chair: Rohde

Caravaggio 1 Room

- 11:30     **Boltzmann collision operator: How to model rotational invariance**  
          Babovsky
- 12:10     **Fully-Implicit Log-Conformation Formulation of Viscoelastic Constitutive Laws**  
          Knechtges - Behr - Elgeti
- 12:30     **Approximate exponential time integration for diffusion problems**  
          Sun - Manhart
- 12:50     **On multi-dimensional discrete equations of convolution type**  
          Vasilyev - Vasilyev

## S19: Optimization of differential equations

### S19.1

Wednesday, 25 | 14:00-16:00

Chair: Vexler

Donatello Room

- 14:00    **Two Types of Globally Convergent Numerical Methods for Coefficient Inverse Problems**  
Klibanov
- 14:20    **A Riemannian SQP method for PDE constrained shape optimization**  
Welker - Schulz - Siebenborn
- 14:40    **A second order convergent trial method for free boundary problems in three dimensions**  
Harbrecht - Bugeanu
- 15:00    **Primal-Dual Active Set Strategy for Singular Optimal Control Problems**  
Fischer - Bechmann
- 15:20    **Adaptive Optimal Control of the Obstacle Problem**  
Wollner - Meyer – Rademacher

### S19.2

Wednesday, 25 | 16:30-18:30

Chair: Vexler

Donatello Room

- 16:30    **Optimal Control of a linear unsteady Fluid-Structure Interaction Problem**  
Failor - Meidner - Vexler
- 16:50    **Parabolic optimal control problems with pointwise controls**  
Leykekhman - Vexler
- 17:10    **Optimal Control of Signorini Contact Problems**  
Meyer - Betz
- 17:30    **Frequency-sparse Control of Bilinear Quantum Systems**  
Henneke - Frisecke - Kunisch

17:50 **Looking for strictly positive solutions of elliptic PDEs**  
Schiela

18:10 **Time optimal control for the monodomain equations – a monolithic approach**  
Pieper - Kunisch – Rund

**S19.3**

Thursday, 26 | 09:00-11:00

Chair: Vexler

Donatello Room

09:00 **The optimal shape of a pipe**  
Schulz

09:20 **Topological derivative for nonlinear magnetostatics**  
Gangl - Amstutz - Langer

09:40 **Multiple state optimal design problems with random perturbation**  
Vrdoljak

10:00 **Robust methods and adaptivity for the numerical solution of variational inequalities for phase-field-based fracture problems**  
Wick

10:20 **A Bridge from State-constrained ODE Optimal Control to State-constrained elliptic PDE Optimal Control: New Necessary Conditions, New Optimization Problems, and New Numerical Methods**  
Pesch - Wrensch - Bechmann - Rund

10:40 **Optimal control for lithium-ion batteries**  
Vossen - Roos – Struck

**S19.4**

Thursday, 26 | 16:30-18:30

Chair: Herty

Donatello Room

16:30 **Numerical approximation of a quasistatic evolution problem in cohesive fracture**  
Solombrino - Fornasier - Cagnetti - Artina

16:50 **Sparse optimal control of the KDV equation**  
Boulanger - Trautmann - Vexler

- 17:10 **Traffic flow control: avoiding shocks via variable speed limit**  
Delle Monache - Piccoli - Rossi
- 17:30 **Lur'e dynamical systems -- existence and stability results**  
Gwinner
- 17:50 **A smooth and localized version of the Hughes model for pedestrian flow**  
Martin - Carrillo - Wolfram
- 18:10 **On Modelling, Simulation and Optimisation of Solar Updraft Towers with Sloped Collectors**  
Gasser – Kamboh

**S19.5**

Friday, 27 | 09:00-11:00

Chair: Herty

Donatello Room

- 09:00 **The identifiability approach for time-dependent full waveform inversion**  
Kourounis - Schenk
- 09:20 **Local minimization algorithms for dynamic programming equations**  
Kröner - Kalise - Kunisch
- 09:40 **Optimization of Multirate Partial Differential Algebraic Equations**  
Pulch - Kugelman
- 10:00 **A priori error estimates for nonstationary optimal control problems with gradient state constraints**  
Ludovici - Neitzel - Wollner
- 10:20 **Direct and indirect multiple shooting for parabolic optimal control problems**  
Carraro - Geiger
- 10:40 **Functional a posteriori estimates for cost functionals of elliptic optimal control problems**  
Wolfmayr

**S19.6**

Friday, 27 | 11:30-13:30

Chair: Herty

Donatello Room

- 11:30     **Multiobjective Optimization of the Flow Around a Cylinder Using Model Order Reduction**  
Peitz - Dellnitz
- 11:50     **A Certified Reduced Basis Approach for Parametrized Linear-Quadratic Optimal Control Problems with Control Constraints**  
Bader - Kärcher - Grepl - Veroy-Grepl
- 12:10     **Wavelet-based lossy trajectory compression for optimal control of parabolic PDEs**  
Goetschel - Weiser

## S20: Dynamics and control

### S20.1

Wednesday, 25 | 16:30-18:30

Chair: Berger

Caravaggio 2 Room

- 16:30     **Control design of the vibration reduction systems**  
Maciejewski - Krzyzynski
- 16:50     **Coordination of guidance and stabilization tasks for bicycle rider modelling**  
Edelmann - Haudum - Plöchl
- 17:10     **Parameter identification of a scaled experimental running gear**  
Keck - Schwarz
- 17:30     **Nonlinear Control of a Variable Displacement Vane Pump**  
Koester - Fidlin
- 17:50     **A kinematic approach based on an equivalent track for a skid-steering robot**  
Galati - Giannoccaro - Messina - Reina
- 18:10     **Harmonic Mistuning of Blisks**  
Pohle - Panning-von Scheidt – Wallaschek

### S20.2

Thursday, 26 | 09:00-11:00

Chair: Prandini

Caravaggio 2 Room

- 09:00     **Stability analysis of implicit difference equations**  
Mehrmann - Thuan
- 09:20     **Controllability characterization for switched DAEs**  
Trenn - Küsters
- 09:40     **The Kalman-Yakubovich-Popov Inequality for Differential-Algebraic Equations**  
Voigt - Reis - Rendel

10:00 **Controlled invariance for DAEs**

Berger

10:20 **Control of underactuated systems with coupling input forces**

Korczak

**S20.3**

Thursday, 26 | 16:30-18:30

Chair: Ancona

Caravaggio 2 Room

16:30 **Stabilization using discounted optimal control problems**

Gruene - Gaitsgory - Thatcher

17:10 **Economic Model Predictive Control under Bounded Disturbances**

Bayer - Allgöwer

17:30 **Approximate linear programming for optimal control design: a solution based on function approximation and randomization**

Prandini - Falsone

18:10 **Multi-objective optimal control of fluid mixing**

Ober-Blöbaum - Padberg-Gehle

**S20.4**

Friday, 27 | 09:00-11:00

Chair: Coclite

Caravaggio 2 Room

09:00 **An optimal junction solver for traffic flow**

Garavello - Ancona - Cesaroni - Coclite

09:40 **Vanishing dielectric constant regime for the Navier Stokes Maxwell equations**

Spirito - Donatelli

10:00 **Schaeffer's regularity theorem and the case of systems**

Caravenna – Spinolo

**S20.5**

Friday, 27 | 11:30-13:30

Chair: Voigt

Caravaggio 2 Room

11:30 **Minimal data rates and entropy in digitally networked systems**

Kawan

- 11:50     **Reachable states of a quasilinear hyperbolic control system: an application to separation processes**  
Zuyev
- 12:10     **Automated generation of a dynamic feedforward control law using local model networks with disturbance inputs**  
Euler-Rolle - Hametner - Jakubek
- 12:30     **Structure-preserving discrete-time LQR problems**  
Flaßkamp - Murphey
- 12:50     **Reconstruction of independent sub-domains for a class of Hamilton-Jacobi equations and application to parallel computing**  
Festa



## S21: Mathematical image processing

### S21.1

Chair: Berkels

Tuesday, 24 | 09:00-11:00

Leandro 1 Room

- 09:00     **On learning reaction diffusion models**  
          Pock - Chen
- 09:40     **Adaptive Total Variation Regularization**  
          Lenzen - Lellmann - Becker - Petra - Schnoerr
- 10:00     **Joint Motion Estimation and Image Reconstruction**  
          Dirks - Burger - Schönlieb
- 10:20     **Regularization methods for flow fields with smooth transitions and sharp edges**  
          Frerking - Burger - Vestweber - Brune
- 10:40     **Regularisation by Circular Hough Transform**  
          Grah - Burger – Schoenlieb

### S21.2

Chair: Pock

Tuesday, 24 | 16:30-18:30

Leandro 1 Room

- 16:30     **Artifact-free variational MPEG decompression**  
          Holler - Bredies
- 16:50     **Cartoon-Texture-Noise Decomposition with Transport Norms**  
          Brauer - Lorenz
- 17:10     **Asymptotics of Spatial Sparsity Priors**  
          Heins - Burger
- 17:30     **Image Warping via Optimal Transport with Sources**  
          Simon - Maas - Rumpf
- 17:50     **Non-rigid registration for pre-operative 3D surfaces and intra-operative 2.5D surfaces**  
          Tatano - Berkels

18:10 **Active-contours for image segmentation relying on non-stationary subdivision schemes**

Romani - Novara - Schmitter - Uhlmann – Unser

**S21.3**

Wednesday, 25 | 14:00-16:00

Chair: Kunis

Leandro 1 Room

14:00 **Deterministic Sparse FFT Algorithms**

Plonka - Wannenwetsch

14:40 **Reconstruction of Multivariate Exponential Functions from Measurements**

Peter

15:00 **Ambiguities in one-dimensional discrete phase retrieval from Fourier magnitudes**

Beinert - Plonka

15:20 **Optimal mollifiers for the reconstruction of spherical images from circular means**

Hielscher - Quellmalz

15:40 **A robust estimation method for camera calibration with known rotation.**

Egozi - Maass – Sagiv

**S21.4**

Wednesday, 25 | 16:30-18:30

Chair: Plonka

Leandro 1 Room

16:30 **Harmonic analysis of projectors**

Ehler - Graef

16:50 **Perturbations of frame sequences and the effect on their duals**

Philipp - Kutyniok - Paternostro

17:10 **Construction of Multichannel Wavelets via Full Rank Subdivision Schemes**

Conti - Cotronei - Sauer

17:30 **Shearlet-Based Edge Detection: Flame Fronts and Tidal Flats**

King - Reisenhofer - Kiefer - Li - Heygster - Lim

17:50 **Classification of Edges Using Compactly Supported Shearlets**  
Petersen – Kutyniok

**S21.5** Thursday, 26 | 09:00-11:00  
Chair: Vinti Leandro 1 Room

09:00 **Approximation in variation for nonlinear Mellin integral operators**  
Angeloni - Vinti

09:40 **Multivariate sampling Kantorovich operators: from the theory to the Digital Image Processing algorithm**  
Costarelli - Vinti

10:00 **Stockwell Transform and Application to Image Analysis**  
Battisti - Pirro - Riba - Sambuelli

10:20 **Applications of Approximation Theory to thermographic images in earthquake engineering**  
Minotti - Cluni - Costarelli - Vinti

10:40 **A generalization of the Zak transform with applications in sampling theory and physics**  
Jüstel

**S21.6** Thursday, 26 | 16:30-18:30  
Chair: Angeloni Leandro 1 Room

16:30 **Multivariate Generalized Sampling Type Series: estimates of pointwise convergence**  
Bardaro - Mantellini

16:50 **A New Blind Source Separation Numerical Technique**  
Gerace - Scognamiglio

17:10 **Geometric Means of Toeplitz Matrices by Positive Parametrizations**  
Iannazzo - Bini - Serra Capizzano

17:30 **A unifying theory for convergence of linear sampling operators in Orlicz spaces**  
Zampogni - Vinti

17:50 **Digital image processing algorithms for diagnosis in arterial diseases**  
Seracini - Costarelli - Vinti

18:10 **Nonnegative Tensor Grid Decomposition**  
Jeuris - Iannazzo – Pompili

**S21.7**

Friday, 27 | 09:00-11:00

Chair: Bardaro

Leandro 1 Room

09:00 **Poisson Noise Removal from High-Resolution Electron Micrographs based on periodic Block-matching**  
Mevenkamp - Binev - Dahmen - Voyles - Yankovich - Berkels

09:20 **Application of learning algorithms for colour recognition on underwater images**  
Hoth - Kowalczyk

09:40 **Edge detection based on fractional order differentiation and its application to railway track images**  
Telke - Beitelschmid

## S22: Scientific computing

### S22.1

Thursday, 26 | 09:00-11:00

Chair: Janna

Caravaggio 3 Room

- 09:00     **Micro-macro parareal algorithms for multiscale problems**  
          Samaey
- 09:40     **Adaptive space time finite element methods for dynamic nonlinear thermomechanical coupled problems**  
          Rademacher
- 10:00     **Parallel simulation of large scale multibody systems**  
          Kloeppe - Naumann - Waurich - Walther - Wensch
- 10:20     **Simulation of coupled machine components on long time scales**  
          Naumann - Klöppel - Wensch
- 10:40     **Boris-SDC: A high-order Boris integrator**  
          Speck - Winkel – Ruprecht

### S22.2

Thursday, 26 | 16:30-18:30

Chair: Vuik

Caravaggio 3 Room

- 16:30     **Efficient Nested Chebyshev Smoothing**  
          Sanan - Schenk
- 17:10     **Rayleigh Quotient Inverse Iteration with Adaptive Algebraic Multigrid for Lattice QCD**  
          Rottmann
- 17:30     **An Auxiliary Space Type Preconditioner for Simulations in Lattice QCD**  
          Frommer - Brannick - Kahl - Leder - Rottmann - Strebel
- 17:50     **A GPU implementation of the Factored Sparse Approximate Inverse preconditioner for the iterative solution of SPD linear systems**  
          Janna - Bernaschi - Bisson – Fantozzi

18:10 **Finite Volume Methods for Sound-Advection-Buoyancy Systems**  
Wensch - Klöppel - Knoth – Naumann

**S22.3** Friday, 27 | 09:00-11:00  
Chair: Janna Caravaggio 3 Room

09:00 **HPC methods for structured inverse modeling in diffusive processes**  
Siebenborn - Schulz

09:40 **Using Automatic Differentiation to Create Sparse Jacobians for the Solution of Nonlinear Partial Differential Equations**  
Zwicke - Knechtges - Behr - Elgeti

10:00 **Multiple-output variable fidelity modeling of vehicle aerodynamics under geometric shape variations**  
Sauerbrei - Zimmermann

10:20 **Sensitivities calculations for unsteady flow problems**  
Stoia-Djeska - Frunzulica

10:40 **EWE – A coupled electro-mechanical heart model in the general purpose FEM framework MOOSE**  
Ruprecht - Winkel – Krause

**S22.4** Friday, 27 | 11:30-13:30  
Chair: Ruprecht Caravaggio 3 Room

11:30 **Enriching Finite Elements with meshless nodes in structural mechanics**  
Ferronato - Janna - Zanette

12:10 **Simulations of turbulent Rayleigh-Bénard convection with a spectral element method**  
Kooij - Botchev - Geurts

12:30 **A fully meshless method for 'gas - evaporating droplet' flow modelling**  
Rybdylova - Osiptsov - Sazhin - Begg - Heikal

12:50 **The Qualitative Analysis and the Critical Hypersurfaces of Stationary Elliptic PDEs**  
Nastase

## S23: Applied operator theory

### S23.1

Tuesday, 24 | 09:00-11:00

Chair: Philipp

Masaccio Room

- 09:00    **Squeezing of arbitrary order**  
Szafraniec
- 09:40    **Lebesgue type decompositions and Radon-Nikodym derivatives for unbounded linear operators and relations**  
de Snoo
- 10:00    **Remarks on the convergence of pseudospectra**  
Siegl - Bögli
- 10:20    **Recent results on functional calculus for Tadmor-Ritt operators**  
Schwenninger - Zwart
- 10:40    **A functional analytic look upon Remling's oracle theorem**  
Vogt - Seifert

### S23.2

Wednesday, 25 | 14:00-16:00

Chair: Siegl

Masaccio Room

- 14:00    **On Abstract *grad-div* Systems**  
Picard - Trostorff - Waurick - Seidler
- 14:40    **Eigenfunction expansions associated with the one-dimensional Schrödinger operator**  
Gilbert
- 15:00    **Collocation-quadrature methods and fast summation for Cauchy singular integral equations with fixed singularities**  
Kaiser - Junghanns - Potts
- 15:20    **Exponential stability of a second order integro-differential equation with delay**  
Trostorff

15:40      **The div A grad-operator without ellipticity**  
Kostrykin - Hussein - Krejcirik - Makarov – Schmitz

**S23.3**

Wednesday, 25 | 16:30-18:30

Chair: Trostorff

Masaccio Room

16:30      **Rational matrix solutions of a Bezout type equation on the half plane**  
Ran - Frazho - Kaashoek

17:10      **On the trace class property of the resolvent regularization of a Dirac-type operator on  $R^3$**   
Waurick - Gesztesy

17:30      **On the spectrum of non-selfadjoint operators over dynamical systems**  
Seifert

17:50      **Uniform mean ergodicity of  $C_0$ -semigroups in a class of Fréchet spaces**  
Albanese - Bonet - Ricker

18:10      **On deformations of classical Jacobi matrices**  
Wojtylak



## S24: History of mechanics

**S24.1** Tuesday, 24 | 16:30-18:30  
Chair: Capecchi Caravaggio 4 Room

16:30 **The change of perspective with the advent of Quantum Mechanics**  
Esposito

17:10 **Walter Noll and the Bourbakization of Mechanics**  
Del Piero

17:50 **Beltrami and mathematical physics in non-Euclidean spaces**  
Capecchi - Ruta

18:10 **Gustav R. Kirchhoff and the dynamics of tapered beams**  
Cazzani

**S24.2** Wednesday, 25 | 14:00-16:00  
Chair: Trovalusci Caravaggio 4 Room

14:00 **On the Derivation of the Equations of Hydrodynamics 65 years after Irving&Kirkwood**  
Podio-Guidugli

14:40 **How does dynamic complexity contribute to the advancement of mechanics**  
Rega

15:20 **On the role of virtual work in Levi-Civita's parallel transport**  
Ruta – Iurato

**S24.3** Wednesday, 25 | 16:30-18:30  
Chair: Rega Caravaggio 4 Room

16:30 **Nineteenth century molecular models with a glance at modern discrete-continuum theories**  
Trovalusci

- 16:50     **The discovery of the vector representation of moments and angular velocity (1750 – 1830)**  
Caparrini
- 17:10     **Domenico Fontana and the entrance of mechanics in architecture**  
Tocci - Masiani
- 17:30     **On the graphic statics for the analysis of masonry domes**  
Cavalagli - Gusella
- 17:50     **G. W. Leibniz's "Machina Deciphratoria", the first described cypher machine from the 17th century, constructed and built in 2013/14 for the Leibniz Exhibition of the Leibniz Universität Hannover**  
Stein

# LIST OF PARTICIPANTS



## A

Abdelwahed, Mohamed	S16	Tuesday, March 24 09:20 - 09:40
Abels, Helmut	S14	Thursday, March 26 09:00 - 09:40
Abramian, Andrei	S03	Thursday, March 26 17:50 - 18:10
Adams, Nikolaus	PLL	Tuesday, March 24 15:00 - 16:00
Ahmad, Mian Ilyas	S18	Thursday, March 26 17:30 - 17:50
Aland, Sebastian	S11	Thursday, March 26 16:30 - 16:50
Albanese, Angela	S23	Wednesday, March 25 17:50 - 18:10
Albers, Bettina	S12	Tuesday, March 24 09:40 - 10:00
Albiez, Jürgen	S06	Friday, March 27 11:50 - 12:10
Aldakheel, Fadi	S06	Thursday, March 26 17:50 - 18:10
Alimi, Aria	S11	Wednesday, March 25 17:50 - 18:10
Allgöwer, Frank		
Altenbach, Holm		
Altenbach, Natalija		
Altmann, Robert	S01	Tuesday, March 24 09:40 - 10:00
Ancona, Fabio		
Angeloni, Laura	S21	Thursday, March 26 09:00 - 09:40
Apatay, Tunc	S04	Friday, March 27 09:40 - 10:00
Arpaia, Luca	S18	Wednesday, March 25 15:20 - 15:40
Arroyo, Marino	MS5	Monday, March 23 16:30 - 16:50
Arslan, Eray	S04	Tuesday, March 24 17:50 - 18:10
Auricchio, Ferdinando	PLL	Thursday, March 26 11:30 - 12:30
Avakian, Artjom	S07	Wednesday, March 25 17:30 - 17:50

## B

Babovsky, Hans	S18	Friday, March 27 11:30 - 12:10
Bachmayr, Markus	YRMS5	Monday, March 23 17:10 - 17:30
Bader, Eduard	S19	Friday, March 27 11:50 - 12:10
Baeuerle, Simon	S05	Tuesday, March 24 09:40 - 10:00
Ballani, Jonas	S17	Friday, March 27 12:30 - 12:50
Balzani, Daniel	S02	Wednesday, March 25 14:00 - 14:40
Bardaro, Carlo	S21	Thursday, March 26 16:30 - 16:50
Bartel, Florian	S08	Thursday, March 26 10:20 - 10:40
Bartel, Thorsten	S06	Thursday, March 26 10:20 - 10:40
Bartels, Alexander	S06	Thursday, March 26 16:30 - 16:50
Bartelt, Matthias	S01	Thursday, March 26 16:50 - 17:10
Barthlen, Andreas	S17	Thursday, March 26 16:50 - 17:10

Battisti, Ubertino	S21	Thursday, March 26 10:00 - 10:20
Bayat, Hamid Reza	S04	Wednesday, March 25 16:50 - 17:10
Bayer, Florian	S20	Thursday, March 26 17:10 - 17:30
Becker, Wilfried		
Bedzra, Rex	S06	Thursday, March 26 10:00 - 10:20
Beese, Steffen	S03	Wednesday, March 25 14:20 - 14:40
Behnke, Ronny	S03	Tuesday, March 24 09:20 - 09:40
Behr, Marek		
Beinert, Robert	S21	Wednesday, March 25 15:00 - 15:20
Beitelschmidt, Michael	S01	Thursday, March 26 09:20 - 09:40
Beladi, Behnaz	S09	Tuesday, March 24 17:50 - 18:10
Benner, Peter		
Berger, Thomas	S20	Thursday, March 26 10:00 - 10:20
Berkels, Benjamin		
Berrone, Stefano	MS2	Monday, March 23 17:10 - 17:30
Berthelsen, Rolf	S06	Tuesday, March 24 10:20 - 10:40
Bertin, Nancy	YRMS4	Monday, March 23 18:10 - 18:30
Bertram, Albrecht	S06	Friday, March 27 09:00 - 09:40
Betsch, Peter		
Beyer, Florian	S04	Thursday, March 26 17:50 - 18:10
Beyn, Wolf-Juergen		
Bianchi, Davide	S17	Friday, March 27 09:40 - 10:00
Bidier, Sami	S08	Thursday, March 26 16:30 - 16:50
Bisegna, Paolo		
Blech, Christopher	S06	Thursday, March 26 10:20 - 10:40
Bleiler, Christian	S02	Tuesday, March 24 10:20 - 10:40
Boettcher, Konrad	S11	Wednesday, March 25 16:30 - 16:50
Böhlke, Thomas	PLL	Tuesday, March 24 11:30 - 12:30
Böl, Markus	S02	Tuesday, March 24 16:30 - 16:50
Bolea Albero, Antonio	S02	Thursday, March 26 09:00 - 09:20
Bonhage, Marius	S01	Friday, March 27 09:20 - 09:40
Bortot, Eliana	S07	Friday, March 27 10:20 - 10:40
Borukhovich, Efim	S07	Tuesday, March 24 17:10 - 17:30
Boso, Daniela	S02	Tuesday, March 24 16:50 - 17:10
Boulanger, Anne-Celine	S19	Thursday, March 26 16:50 - 17:10
Boy, Felix	S05	Tuesday, March 24 09:00 - 09:20
Bozovic, Nemanja	S17	Thursday, March 26 17:30 - 17:50
Brands, Dominik	S08	Thursday, March 26 17:30 - 17:50
Brauer, Christoph	S21	Tuesday, March 24 16:50 - 17:10

Brazaluk, Iuliia	S09	Tuesday, March 24 18:30 - 18:50
Bremer, Hartmut		
Brepols, Tim	S03	Wednesday, March 25 17:10 - 17:30
Brezzi, Franco	MS2	Monday, March 23 16:30 - 17:10
Brouet, Francois	S04	Friday, March 27 13:10 - 13:30
Bruecker, Christoph	S09	Tuesday, March 24 10:40 - 11:00
Buchacz, Andrzej	S07	Thursday, March 26 09:00 - 09:20
Bucher, Christian	S15	Tuesday, March 24 18:10 - 18:30
Buckmann, Karsten	S06	Wednesday, March 25 14:40 - 15:00
Budday, Dominik	S02	Thursday, March 26 09:20 - 09:40
Budday, Silvia	S06	Friday, March 27 09:40 - 10:00
Burkhardt, Markus	S01	Tuesday, March 24 10:40 - 11:00

## C

Calatroni, Luca	S14	Thursday, March 26 10:00 - 10:20
Campiti, Michele		
Caparrini, Sandro	S24	Wednesday, March 25 16:50 - 17:10
Capecchi, Danilo	S24	Tuesday, March 24 17:50 - 18:10
Caravenna, Laura	S20	Friday, March 27 10:00 - 10:40
Carfagna, Melania	S02	Tuesday, March 24 17:50 - 18:10
Carrara, Pietro	S03	Thursday, March 26 09:40 - 10:00
Carraro, Thomas	S19	Friday, March 27 10:20 - 10:40
Caselli, Federica	S04	Thursday, March 26 09:20 - 09:40
Cavalagli, Nicola	S24	Wednesday, March 25 17:30 - 17:50
Caylak, Ismail	S04	Wednesday, March 25 17:50 - 18:10
Cazzani, Antonio	S24	Tuesday, March 24 18:10 - 18:30
Chen, Zhaoyu	S06	Friday, March 27 12:30 - 12:50
Cherubini, Stefania	S09	Tuesday, March 24 10:20 - 10:40
Chiarello, Valentina	S15	Tuesday, March 24 17:10 - 17:30
Chinchaladze, Natalia	S04	Thursday, March 26 10:40 - 11:00
Chiroiu, Veturia	S05	Tuesday, March 24 17:30 - 17:50
Christowiak, Fabian	S14	Tuesday, March 24 10:00 - 10:20
Cicalese, Marco	MS3	Monday, March 23 16:30 - 17:00
Cicone, Antonio	S17	Wednesday, March 25 18:10 - 18:30
Coclite, Alessandro	S10	Tuesday, March 24 10:40 - 11:00
Coclite, Giuseppe		
Congedo, Pietro Marco	S15	Wednesday, March 25 15:00 - 15:20
Conti, Costanza	S21	Wednesday, March 25 17:10 - 17:30

Conti, Sergio		
Costarelli, Danilo	S21	Thursday, March 26 09:40 - 10:00
Cuba Ramos, Aurelia	S03	Thursday, March 26 09:00 - 09:20
Cyron, Christian	MS5	Monday, March 23 17:30 - 17:50
Cárdenas, Giovanni Marcelo	S14	Thursday, March 26 10:40 - 11:00

## D

D'Andria, Francesco	PBL	Tuesday, March 24 18:30 - 19:30
Darvishi Kamachali, Reza	S07	Tuesday, March 24 17:50 - 18:10
Das, Pratibhamoy	S18	Thursday, March 26 18:10 - 18:30
DeSimone, Antonio	MS1	Monday, March 23 16:30 - 17:10
De Lorenzis, Laura		
de Payrebrune, Kristin	S05	Wednesday, March 25 16:50 - 17:10
de Snoo, Henk	S23	Tuesday, March 24 09:40 - 10:00
Del Piero, Gianpietro	S24	Tuesday, March 24 17:10 - 17:50
Delle Monache, Maria Laura	S19	Thursday, March 26 17:10 - 17:30
Deppler, Jens	S01	Tuesday, March 24 17:50 - 18:10
Descher, Stefan	S11	Wednesday, March 25 15:00 - 15:20
Di Paola, Mario	S15	Wednesday, March 25 16:30 - 17:10
Didam, Stephan	S04	Thursday, March 26 17:10 - 17:30
Diebels, Stefan	S02	Tuesday, March 24 09:00 - 09:20
Diegelmann, Felix	S10	Friday, March 27 12:30 - 12:50
Diehl, Moritz	PLL	Wednesday, March 25 09:00 - 10:00
Diermeier, Johannes	S14	Tuesday, March 24 09:40 - 10:00
Dimitri, Rossana	S04	Tuesday, March 24 09:00 - 09:40
Dirks, Hendrik	S21	Tuesday, March 24 10:00 - 10:20
Dobovsek, Igor	S07	Wednesday, March 25 17:50 - 18:10
Dolzman, Georg	S14	Thursday, March 26 10:20 - 10:40
Donatelli, Marco	S17	Friday, March 27 09:00 - 09:40
Dornisch, Wolfgang	S04	Thursday, March 26 09:00 - 09:20
Dreesen, Philippe	YRMS5	Monday, March 23 16:50 - 17:10
Dridger, Alex	S15	Tuesday, March 24 10:00 - 10:20
Drozdetskaya, Olga	S05	Tuesday, March 24 10:40 - 11:00
Díaz, Guillermo	S03	Thursday, March 26 10:40 - 11:00
Dörlich, Vanessa	S04	Thursday, March 26 17:30 - 17:50
Düsing, Martin	S06	Thursday, March 26 16:50 - 17:10
Düster, Alexander		



## E

Eberhard, Peter	S01	Thursday, March 26 09:00 - 09:20
Edelmann, Johannes	S20	Wednesday, March 25 16:50 - 17:10
Egbers, Christoph		
Egozi, Amir	S21	Wednesday, March 25 15:40 - 16:00
Ehler, Martin	S21	Wednesday, March 25 16:30 - 16:50
Ehlers, Wolfgang		
Ehret, Alexander	S06	Friday, March 27 09:00 - 09:40
Eidel, Bernhard	S04	Thursday, March 26 16:50 - 17:10
Eisenträger, Johanna	S04	Thursday, March 26 10:20 - 10:40
Elgeti, Stefanie	S07	Friday, March 27 12:50 - 13:10
Elia, Cinzia	MS4	Monday, March 23 17:10 - 17:30
Endres, Florian	S06	Wednesday, March 25 15:20 - 15:40
Erschen, Stefan	S16	Wednesday, March 25 15:00 - 15:20
Esposito, Salvatore	S24	Tuesday, March 24 16:30 - 17:10
Eugster, Simon	S06	Friday, March 27 12:50 - 13:10
Euler-Rolle, Nikolaus	S20	Friday, March 27 12:10 - 12:30
Eurich, Lukas		

## F

Failer, Lukas	S19	Wednesday, March 25 16:30 - 16:50
Farano, Mirko	S09	Tuesday, March 24 09:40 - 10:00
Fassbender, Heike	S17	Wednesday, March 25 16:30 - 17:10
Fausten, Simon	S02	Tuesday, March 24 09:40 - 10:00
Fehr, Joerg	S03	Thursday, March 26 16:50 - 17:10
Feireisl, Eduard	S14	Tuesday, March 24 09:00 - 09:40
Felger, Julian	S03	Tuesday, March 24 10:00 - 10:20
Ferranti, Micol	S17	Wednesday, March 25 15:20 - 15:40
Ferronato, Massimiliano	S22	Friday, March 27 11:30 - 12:10
Festa, Adriano	S20	Friday, March 27 12:50 - 13:10
Fidlin, Alexander		
Fiedler, Robert	YRMS1	Monday, March 23 17:30 - 18:00
Fink, Davina	S07	Friday, March 27 12:30 - 12:50
Fischer, Julia	S19	Wednesday, March 25 15:00 - 15:20
Flaßkamp, Kathrin	S20	Friday, March 27 12:30 - 12:50
Foti, Pilade	S06	Thursday, March 26 09:00 - 09:40
Frerking, Lena	S21	Tuesday, March 24 10:20 - 10:40

Friedman, Noemi	S15	Wednesday, March 25 15:20 - 15:40
Friedrich, Robert	S04	Thursday, March 26 09:40 - 10:00
Fries, Thomas-Peter	S11	Wednesday, March 25 14:20 - 14:40
Frigeri, Sergio	S14	Friday, March 27 09:00 - 09:40
Frikel, Jürgen	YRMS4	Monday, March 23 17:30 - 17:50
Frings, Markus	S11	Wednesday, March 25 14:00 - 14:20
Fritzen, Felix	S08	Friday, March 27 12:30 - 12:50
Frommer, Andreas	S22	Thursday, March 26 17:30 - 17:50
Frunzulica, Florin	S07	Thursday, March 26 17:10 - 17:30
Fusi, Francesca	S16	Wednesday, March 25 14:40 - 15:00

## G

Galati, Rocco	S20	Wednesday, March 25 17:50 - 18:10
Galdi, Giovanni	PLL	Monday, March 23 15:00 - 16:00
Gambarotta, Luigi	S06	Friday, March 27 11:50 - 12:10
Gangl, Peter	S19	Thursday, March 26 09:20 - 09:40
Garavello, Mauro	S20	Friday, March 27 09:00 - 09:40
Garoni, Carlo	S17	Wednesday, March 25 17:50 - 18:10
Garroni, Adriana	MS3	Monday, March 23 17:00 - 17:30
Gasser, Ingenuin	S19	Thursday, March 26 18:10 - 18:30
Gei, Massimiliano	S04	Tuesday, March 24 17:30 - 17:50
Gerace, Ivan	S21	Thursday, March 26 16:50 - 17:10
Ghani, Abdulla	S10	Friday, March 27 12:10 - 12:30
Giannetti, Flavio		
Giesselmann, Jan	S18	Wednesday, March 25 15:00 - 15:20
Gilbert, Daphne	S23	Wednesday, March 25 14:40 - 15:00
Ginster, Janusz	S14	Thursday, March 26 17:30 - 17:50
Girip, Iulian	S04	Tuesday, March 24 16:50 - 17:10
Glabach, Peter	S14	Friday, March 27 10:20 - 10:40
Glaser, Philipp	S15	Wednesday, March 25 17:10 - 17:30
Gloerfelt, Xavier	S12	Tuesday, March 24 09:00 - 09:40
Glüge, Rainer	S08	Friday, March 27 11:30 - 11:50
Goetschel, Sebastian	S19	Friday, March 27 12:10 - 12:30
Goldberg, Niels	S06	Thursday, March 26 09:40 - 10:00
Goldschmidt, Florian	S06	Tuesday, March 24 10:40 - 11:00
Göllner, Thea	S16	Tuesday, March 24 16:30 - 17:10
Gorash, Yevgen	S04	Friday, March 27 12:10 - 12:30
Graf, Wolfgang		

Grah, Joana	S21	Tuesday, March 24 10:40 - 11:00
Grasedyck, Lars	S17	Friday, March 27 11:30 - 12:10
Grillo, Alfio	S02	Tuesday, March 24 18:10 - 18:30
Gross, Dietmar		
Gruene, Lars	S20	Thursday, March 26 16:30 - 17:10
Grundl, Kilian	S01	Tuesday, March 24 16:50 - 17:10
Gundlach, Janto	S07	Thursday, March 26 10:00 - 10:20
Günther, Christina	S06	Friday, March 27 10:40 - 11:00
Günther, Michael		
Güttel, Stefan	S17	Thursday, March 26 18:10 - 18:30
Gwinner, Joachim	S19	Thursday, March 26 17:30 - 17:50

## H

Häberle, Kai	S07	Thursday, March 26 17:30 - 17:50
Hackbusch, Wolfgang		
Hackenber, Manuela	S07	Thursday, March 26 09:20 - 09:40
Hackl, Klaus		
Hagedorn, Peter		
Hajian, Soheil	S17	Thursday, March 26 17:50 - 18:10
Hammerschmidt, Antonia	S05	Wednesday, March 25 17:10 - 17:30
Hannusch, Susann	S04	Thursday, March 26 18:10 - 18:30
Hanss, Michael	S01	Friday, March 27 09:00 - 09:20
Hante, Falk	MS4	Monday, March 23 17:30 - 17:50
Harbrecht, Helmut	S19	Wednesday, March 25 14:40 - 15:00
Hartmann, Birgit		
Hartmann, Stefan	S06	Wednesday, March 25 16:30 - 17:10
Haskul, Mehmet	S03	Thursday, March 26 17:30 - 17:50
Haslinger, Josef	S01	Tuesday, March 24 17:10 - 17:30
Hassler, Stefan	S18	Wednesday, March 25 14:40 - 15:00
Hatecke, Hannes	S18	Thursday, March 26 16:30 - 16:50
Heckmann, Andreas	S01	Thursday, March 26 10:20 - 10:40
Heckmann, Chrisitan	S11	Thursday, March 26 17:30 - 17:50
Heiland, Jan	YRMS1	Monday, March 23 18:00 - 18:30
Heine, Clemens		
Heinemann, Christian	YRMS2	Monday, March 23 17:00 - 17:30
Heinlein, Alexander	S02	Wednesday, March 25 15:20 - 15:40
Heins, Pia	S21	Tuesday, March 24 17:10 - 17:30
Heinze, Stephan	S06	Friday, March 27 12:50 - 13:10

Heller, Dominik	S08	Thursday, March 26 17:10 - 17:30
Hellmich, Christian	MS5	Monday, March 23 17:50 - 18:10
Henneke, Felix	S19	Wednesday, March 25 17:30 - 17:50
Henning, Carla		
Hentschel, Olaf	S04	Tuesday, March 24 16:30 - 16:50
Herty, Michael		
Heymanns, Matthias	S05	Wednesday, March 25 15:40 - 16:00
Hielscher, Ralf	S21	Wednesday, March 25 15:20 - 15:40
Hillgärtner, Markus	S02	Tuesday, March 24 17:10 - 17:30
Hirschfeld, Stefan	S11	Thursday, March 26 16:50 - 17:10
Holler, Martin	S21	Tuesday, March 24 16:30 - 16:50
Horn, Benjamin		
Hornung, Cordula	S10	Tuesday, March 24 17:30 - 17:50
Horsch, Martin	S11	Thursday, March 26 17:50 - 18:10
Hossain, Mokarram	S06	Tuesday, March 24 17:10 - 17:30
Hoth, Julian	S21	Friday, March 27 09:20 - 09:40
Hübner, Daniel	S16	Tuesday, March 24 17:10 - 17:30
Huck, Christoph	YRMS1	Monday, March 23 16:30 - 17:00
Hupp, Daniel	S18	Thursday, March 26 10:20 - 10:40
Hürkamp, André	S04	Friday, March 27 11:30 - 11:50

## I

Iakymchuk, Roman	S16	Tuesday, March 24 10:00 - 10:20
Iannazzo, Bruno	S21	Thursday, March 26 17:10 - 17:30
Ilie, Ruxandra	S06	Thursday, March 26 10:40 - 11:00
Ihlemann, Jörn		
Invernizzi, Stefano	S03	Thursday, March 26 09:20 - 09:40
Ioan, Rodica	S06	Friday, March 27 13:10 - 13:30

## J

Janna, Carlo	S22	Thursday, March 26 17:50 - 18:10
Jansen, Lennart	S18	Thursday, March 26 17:50 - 18:10
Janz, Alexander	S04	Wednesday, March 25 14:00 - 14:40
Jehle, Georg	S05	Wednesday, March 25 14:20 - 14:40
Jeltsch, Rolf		
Jeuris, Ben	S21	Thursday, March 26 18:10 - 18:30
Jha, Niraj Kumar	S03	Thursday, March 26 10:20 - 10:40
Jocksch, Andreas	S09	Tuesday, March 24 16:30 - 17:10

Joulaian, Meysam	S04	Wednesday, March 25 18:10 - 18:30
Judt, Paul	S03	Tuesday, March 24 16:30 - 16:50
Juhre, Daniel	S06	Friday, March 27 10:00 - 10:20
Jung, Anne	S07	Tuesday, March 24 09:00 - 09:20
Jørgensen, Jakob	YRMS4	Monday, March 23 17:50 - 18:10
Jüstel, Dominik	S21	Thursday, March 26 10:40 - 11:00

## K

Kaiser, Robert	S23	Wednesday, March 25 15:00 - 15:20
Kalisch, Jan	S06	Wednesday, March 25 17:10 - 17:30
Kaliske, Michael		
Kapelke, Simon	S05	Wednesday, March 25 17:30 - 17:50
Kaptan, Ferhat	S05	Wednesday, March 25 15:00 - 15:20
Kawan, Christoph	S20	Friday, March 27 11:30 - 11:50
Kazeev, Vladimir	YRMS5	Monday, March 23 17:30 - 17:50
Keck, Alexander	S20	Wednesday, March 25 17:10 - 17:30
Kehrer, Loredana	S08	Friday, March 27 09:40 - 10:00
Keip, Marc-Andre	S06	Wednesday, March 25 14:00 - 14:40
Keisenberg, Tobias	S05	Tuesday, March 24 10:20 - 10:40
Kempe, Tobias	S11	Wednesday, March 25 15:20 - 15:40
Kempf, Andreas	S10	Tuesday, March 24 10:20 - 10:40
Kern, Dominik	S01	Thursday, March 26 16:30 - 16:50
Khiêm, Vu	S04	Thursday, March 26 16:30 - 16:50
Kiefer, Björn	S07	Friday, March 27 09:00 - 09:40
Kienzler, Reinhold		
Kießling, Robert	S06	Friday, March 27 12:10 - 12:30
King, Emily	S21	Wednesday, March 25 17:30 - 17:50
Klarmann, Simon	S08	Friday, March 27 09:00 - 09:20
Kleiser, Leonhard		
Klibanov, Michael	S19	Wednesday, March 25 14:00 - 14:20
Klinge, Sandra	S06	Tuesday, March 24 16:30 - 17:10
Klinkel, Sven	S04	Wednesday, March 25 16:30 - 16:50
Kloeppel, Michael	S22	Thursday, March 26 10:00 - 10:20
Kluwick, Alfred	S09	Tuesday, March 24 10:00 - 10:20
Knechtges, Philipp	S18	Friday, March 27 12:10 - 12:30
Knees, Dorothee		
Kochmann, Julian	S06	Thursday, March 26 17:30 - 17:50
Koebelé-Cousquer, Maxime	S15	Tuesday, March 24 09:20 - 09:40

Koester, Marius	S20	Wednesday, March 25 17:30 - 17:50
Kolvenbach, Philip		
Konyukhov, Alexander	S04	Tuesday, March 24 09:40 - 10:00
Kooij, Gijs	S22	Friday, March 27 12:10 - 12:30
Korczak, Sebastian	S20	Thursday, March 26 10:20 - 10:40
Koster, Michael	S06	Friday, March 27 11:30 - 11:50
Kostin, Georgy	S04	Tuesday, March 24 18:10 - 18:30
Kostykin, Vadim	S23	Wednesday, March 25 15:40 - 16:00
Kourounis, Drosos	S19	Friday, March 27 09:00 - 09:20
Krause, Maria	S06	Tuesday, March 24 18:10 - 18:30
Kressner, Daniel	PLL	Thursday, March 26 14:00 - 15:00
Krinner, Andreas	S01	Friday, March 27 09:40 - 10:00
Kröger, Nils	S06	Friday, March 27 10:20 - 10:40
Krome, Fabian	S12	Tuesday, March 24 17:30 - 17:50
Kröner, Axel	S19	Friday, March 27 09:20 - 09:40
Krzyżyński, Tomasz	S16	Wednesday, March 25 15:40 - 16:00
Kuhlmann, Hendrik		
Kuhn, Charlotte		
Kunis, Stefan		
Kurniawan, Nicholas	S02	Wednesday, March 25 15:40 - 16:00
Kurnik, Włodzimierz		
Kuttich, Anja	S16	Wednesday, March 25 14:00 - 14:40
Kutyniok, Gitta		

## L

Labusch, Matthias	S08	Thursday, March 26 17:50 - 18:10
Laforgia, Domenico		
Lakshmanan, Peter	S11	Thursday, March 26 17:10 - 17:30
Lamacz, Agnes	S14	Friday, March 27 10:00 - 10:20
Lammering, Rolf	S06	Wednesday, March 25 16:30 - 17:10
Landgraf, Ralf	S06	Tuesday, March 24 10:00 - 10:20
Landkammer, Philipp	S06	Wednesday, March 25 17:50 - 18:10
Lange, Stephan	S07	Wednesday, March 25 16:30 - 16:50
Lawrence, Piers	S17	Wednesday, March 25 17:30 - 17:50
Le, Khanh Chau		
Lechner, Christiane	S11	Wednesday, March 25 14:40 - 15:00
Lehn, Andreas	S16	Wednesday, March 25 15:20 - 15:40
Leine, Remco	S01	Thursday, March 26 10:00 - 10:20

Leismann, Thorben	S06	Friday, March 27 10:20 - 10:40
Lekomtsev, Sergey	S07	Thursday, March 26 16:50 - 17:10
Lemma, Enrico Domenico		
Lentz, Lukas	S05	Wednesday, March 25 15:20 - 15:40
Lenzen, Frank	S21	Tuesday, March 24 09:40 - 10:00
Leugering, Günter		
Leyendecker, Sigrid	MS4	Monday, March 23 17:50 - 18:10
Leykekhman, Dmitriy	S19	Wednesday, March 25 16:50 - 17:10
Li, Xuhui	S02	Tuesday, March 24 10:40 - 11:00
Linka, Kevin	S02	Tuesday, March 24 17:30 - 17:50
Linke, Julia	S11	Thursday, March 26 09:40 - 10:00
Linss, Torsten		
Lobos, Mauricio	S08	Thursday, March 26 16:50 - 17:10
Loderer, Thomas	S18	Thursday, March 26 17:10 - 17:30
Lohkamp, Richard	S06	Thursday, March 26 18:10 - 18:30
Löhnert, Stefan	S03	Tuesday, March 24 09:00 - 09:20
Lopez, Luciano		
Luce, Robert	S17	Friday, March 27 10:40 - 11:00
Luckhaus, Stephan	MS3	Monday, March 23 17:30 - 18:00
Ludovici, Francesco	S19	Friday, March 27 10:00 - 10:20
Luo, Chenyi	S07	Tuesday, March 24 16:30 - 16:50
Luo, Junjie	S04	Tuesday, March 24 17:10 - 17:30

## M

Maaß, Grischa	S03	Wednesday, March 25 17:30 - 17:50
Maciejewski, Igor	S20	Wednesday, March 25 16:30 - 16:50
Mack, Werner		
Madjarevic, Damir	S07	Tuesday, March 24 09:40 - 10:00
Magiera, Jim	S18	Thursday, March 26 10:00 - 10:20
Mahner, Marcel	S07	Tuesday, March 24 10:40 - 11:00
Mahnken, Rolf		
Marczona, Jonas		
Marino, Michele	MS5	Monday, March 23 17:10 - 17:30
Marino, Michele		
Mariotti, Alessandro	S15	Wednesday, March 25 14:20 - 14:40
Markert, Richard		
Marner, Florian	S14	Tuesday, March 24 10:40 - 11:00
Martin, Stephan	S19	Thursday, March 26 17:50 - 18:10

Mastronardi, Nicola	S17	Wednesday, March 25 15:40 - 16:00
Matthies, Hermann		
Mauthe, Steffen	S03	Wednesday, March 25 14:00 - 14:20
Mehnert, Markus	S08	Friday, March 27 09:20 - 09:40
Mehrmann, Volker	S20	Thursday, March 26 09:00 - 09:20
Melchionna, Stefano	S14	Thursday, March 26 09:40 - 10:00
Meldi, Marcello	S15	Wednesday, March 25 15:40 - 16:00
Mellado, Juan Pedro	S10	Friday, March 27 10:20 - 10:40
Menzel, Andreas	MS1	Monday, March 23 17:10 - 17:30
Merkel, Eugen	S07	Wednesday, March 25 14:40 - 15:00
Merle, Xavier	S15	Wednesday, March 25 14:40 - 15:00
Metsch, Philipp	S07	Friday, March 27 10:00 - 10:20
Metzger, Andreas	S04	Friday, March 27 12:30 - 12:50
Metzger, Stefan	YRMS2	Monday, March 23 16:30 - 17:00
Mevenkamp, Niklas	S21	Friday, March 27 09:00 - 09:20
Meyer, Christian	S19	Wednesday, March 25 17:10 - 17:30
Meyer, Tobias	S01	Thursday, March 26 17:10 - 17:30
Miehe, Christian	MS1	Monday, March 23 17:30 - 17:50
Mills, Kristen	S02	Wednesday, March 25 16:50 - 17:10
Minotti, Anna Maria	S21	Thursday, March 26 10:20 - 10:40
Mishra, Nachiketa	S08	Thursday, March 26 10:00 - 10:20
Modesti, Davide	S10	Friday, March 27 10:00 - 10:20
Moffatt, Keith	PRL	Monday, March 23 14:00 - 15:00
Moj, Lukas	S07	Tuesday, March 24 17:30 - 17:50
Mojsic, Aleksandar	S16	Tuesday, March 24 09:00 - 09:20
Morales Ortuno, Sergio	S02	Tuesday, March 24 10:00 - 10:20
Morin, Claire	MS5	Monday, March 23 16:50 - 17:10
Mosler, Joern		
Mosnegutu, Valerica	S06	Wednesday, March 25 17:50 - 18:10
Muench, Ingo	S18	Friday, March 27 09:40 - 10:00
Müller, Ralf	MS1	Monday, March 23 17:50 - 18:10
Müllner, Markus	S10	Thursday, March 26 18:10 - 18:30
Munteanu, Ligia	S06	Wednesday, March 25 18:10 - 18:30
Munz, Claus-Dieter		
Murphey, Todd	MS4	Monday, March 23 16:30 - 16:50
Musayev, Khayal	S12	Tuesday, March 24 10:40 - 11:00



Nackenhorst, Udo		
Nastase, Adriana	S22	Friday, March 27 12:50 - 13:10
Nateghi, Aref	S07	Wednesday, March 25 14:20 - 14:40
Naumann, Andreas	S22	Thursday, March 26 10:20 - 10:40
Naumann, Christoph	S06	Friday, March 27 12:30 - 12:50
Naumenko, Konstantin	S04	Thursday, March 26 10:00 - 10:20
Nazarenko, Lidia	S08	Friday, March 27 12:50 - 13:10
Needell, Deanna	YRMS4	Monday, March 23 16:30 - 17:10
Neitzel, Ira		
Nemdili, Fadela	S10	Tuesday, March 24 17:50 - 18:10
Nesenenko, Sergiy	S14	Tuesday, March 24 10:20 - 10:40
Neumann, Tim	S11	Thursday, March 26 10:20 - 10:40
Nguyen, Binh Duong	S06	Thursday, March 26 09:40 - 10:00
Nguyen, Lu Trong Khiem	S12	Tuesday, March 24 17:10 - 17:30
Nguyen, Van	S06	Friday, March 27 11:30 - 11:50
Nicoud, Franck	S10	Tuesday, March 24 16:30 - 17:10
Niederhöfer, Florian	S08	Friday, March 27 10:00 - 10:20
Niessner, Herbert	S18	Wednesday, March 25 15:40 - 16:00
Niroomand Rad, Helia	S07	Wednesday, March 25 15:00 - 15:20
Nisters, Carina	S04	Wednesday, March 25 15:20 - 15:40
Nodargi, Nicola	S04	Wednesday, March 25 17:10 - 17:30
Notarnicola, Filippo	S07	Wednesday, March 25 15:20 - 15:40
Nowak, Johannes	S11	Thursday, March 26 09:20 - 09:40

## O

Ober-Blöbaum, Sina	S20	Thursday, March 26 18:10 - 18:30
Oberlack, Martin	S10	Tuesday, March 24 09:40 - 10:00
Odishelidze, Nana	S04	Friday, March 27 10:20 - 10:40
Olbermann, Heiner	MS3	Monday, March 23 18:00 - 18:30
Omerović, Samir	S04	Friday, March 27 11:50 - 12:10
Osman, Muhammad	S06	Thursday, March 26 10:40 - 11:00

## P

Paganini, Alberto	YRMS3	Monday, March 23 16:30 - 16:50
Pandey, Anamika		
Parente, Alessandro	S10	Tuesday, March 24 17:10 - 17:30
Parmigiani, John	S03	Tuesday, March 24 10:20 - 10:40
Partzsch, Marian	S07	Tuesday, March 24 10:00 - 10:20
Parzer, Herbert	S01	Tuesday, March 24 09:20 - 09:40

Pawelczy, Matthaeus		
Pearson, John	YRMS3	Monday, March 23 16:50 - 17:10
Peitz, Sebastian	S19	Friday, March 27 11:30 - 11:50
Penta, Raimondo	S02	Wednesday, March 25 17:10 - 17:30
Perek, Anna	S05	Wednesday, March 25 14:00 - 14:20
Peres, Noele	S10	Friday, March 27 12:50 - 13:10
Pesch, Hans Josef	S19	Thursday, March 26 10:20 - 10:40
Peter, Thomas	S21	Wednesday, March 25 14:40 - 15:00
Petersen, Philipp	S21	Wednesday, March 25 17:50 - 18:10
Petra, Stefania		
Pfeffer, Max	YRMS5	Monday, March 23 17:50 - 18:10
Pfefferer, Johannes	YRMS3	Monday, March 23 17:10 - 17:30
Pfeiffer, Friedrich		
Philipp, Friedrich	S21	Wednesday, March 25 16:50 - 17:10
Picard, Rainer	S23	Wednesday, March 25 14:00 - 14:40
Pick, Marc-Andre	S05	Wednesday, March 25 14:40 - 15:00
Pieper, Konstantin	S19	Wednesday, March 25 18:10 - 18:30
Pietra, Paola	MS2	Monday, March 23 17:30 - 17:50
Piovano, Paolo	S14	Friday, March 27 09:40 - 10:00
Pitsch, Heinz	S10	Tuesday, March 24 10:00 - 10:20
Plonka, Gerlind	S21	Wednesday, March 25 14:00 - 14:40
Pock, Thomas	S21	Tuesday, March 24 09:00 - 09:40
Podio-Guidugli, Paolo	S24	Wednesday, March 25 14:00 - 14:40
Pohle, Linus	S20	Wednesday, March 25 18:10 - 18:30
Poinsot, Thierry	S10	Friday, March 27 11:30 - 12:10
Poliakov, Mykola	S18	Friday, March 27 10:40 - 11:00
Popolizio, Marina	S17	Thursday, March 26 16:30 - 16:50
Pouriayevali, Habib	S06	Friday, March 27 10:00 - 10:20
Prahs, Andreas	S06	Friday, March 27 09:40 - 10:00
Prandini, Maria	S20	Thursday, March 26 17:30 - 18:10
Przybylowicz, Piotr	S05	Tuesday, March 24 09:20 - 09:40
Pulch, Roland	S19	Friday, March 27 09:40 - 10:00

## R

Rademacher, Andreas	S22	Thursday, March 26 09:40 - 10:00
Radisch, Christian	S05	Tuesday, March 24 16:30 - 16:50
Radszuweit, Markus	S03	Tuesday, March 24 17:30 - 17:50
Raina, Arun	S02	Wednesday, March 25 15:00 - 15:20

Rammerstorfer, Franz		
Ran, Andre	S23	Wednesday, March 25 16:30 - 17:10
Ranft, Michael	S11	Thursday, March 26 18:10 - 18:30
Rao, Mekala	S06	Wednesday, March 25 17:30 - 17:50
Rashedi, Somaiyeh	S17	Friday, March 27 12:50 - 13:10
Rasuo, Bosko	S12	Tuesday, March 24 10:20 - 10:40
Reese, Stefanie		
Rega, Giuseppe	S24	Wednesday, March 25 14:40 - 15:20
Rege, Ameya	S06	Thursday, March 26 09:00 - 09:20
Reiter, Alexander	S01	Tuesday, March 24 10:00 - 10:20
Renuka Balakrishna, Ananya		
Rezaei, Shahed	S03	Wednesday, March 25 15:00 - 15:20
Ricken, Tim		
Ricoeur, Andreas		
Riehl, Stefan	S16	Tuesday, March 24 17:30 - 17:50
Rittich, Hannah	S17	Friday, March 27 10:20 - 10:40
Robol, Leonardo	S17	Wednesday, March 25 15:00 - 15:20
Rocca, Elisabetta		
Rodio, Maria Giovanna	S11	Thursday, March 26 10:00 - 10:20
Roehrl, Oliver		
Rohde, Christian		
Röhrig, Céline	S06	Thursday, March 26 09:20 - 09:40
Romani, Lucia	S21	Tuesday, March 24 18:10 - 18:30
Romanò, Francesco	S11	Thursday, March 26 09:00 - 09:20
Römer, Ulrich	YRMS1	Monday, March 23 17:00 - 17:30
Römer, Ulrich	S01	Tuesday, March 24 18:10 - 18:30
Rosic, Bojana	S15	Tuesday, March 24 10:40 - 11:00
Rosin, Korinna		
Rottmann, Matthias	S22	Thursday, March 26 17:10 - 17:30
Rotundo, Nella		
Rozgic, Marco	S16	Tuesday, March 24 09:40 - 10:00
Ruck, Johannes	S03	Wednesday, March 25 16:30 - 16:50
Rudolph, Martin	S06	Tuesday, March 24 17:30 - 17:50
Rudykh, Stephan	S08	Thursday, March 26 18:10 - 18:30
Ruf, Matthias		
Ruprecht, Daniel	S22	Friday, March 27 10:40 - 11:00
Russo, Serena	S12	Tuesday, March 24 10:00 - 10:20
Rust, Wilhelm	S04	Tuesday, March 24 10:00 - 10:20
Ruta, Giuseppe	S24	Wednesday, March 25 15:20 - 15:40

Rybdylova, Oyuna

S22

Friday, March 27 12:30 - 12:50

## S

Saadi, Mohamed	S15	Tuesday, March 24 10:20 - 10:40
Sadilek, Vaclav	S15	Tuesday, March 24 17:30 - 17:50
Sagaut, Pierre	S10	Friday, March 27 09:00 - 09:40
Salvetti, Maria Vittoria	S10	Thursday, March 26 17:30 - 17:50
Samaey, Giovanni	S22	Thursday, March 26 09:00 - 09:40
Sanan, Patrick	S22	Thursday, March 26 16:30 - 17:10
Santarelli, Claudio	S10	Thursday, March 26 17:50 - 18:10
Sarfraz, Muhammad Sadiq	S15	Tuesday, March 24 09:40 - 10:00
Sauer, Roger	S07	Friday, March 27 11:30 - 12:10
Sauerbrei, Anna	S22	Friday, March 27 10:00 - 10:20
Schätzer, Markus	S03	Tuesday, March 24 09:40 - 10:00
Scheffer, Tobias	S06	Tuesday, March 24 17:50 - 18:10
Scheichl, Bernhard	S09	Tuesday, March 24 17:10 - 17:50
Schemmann, Malte	S06	Wednesday, March 25 17:30 - 17:50
Schenk, Christina	S18	Thursday, March 26 16:50 - 17:10
Schenke, Maik	S07	Friday, March 27 12:10 - 12:30
Scheunemann, Lisa	S08	Thursday, March 26 09:20 - 09:40
Schiehlen, Werner	S01	Tuesday, March 24 16:30 - 16:50
Schiela, Anton	S19	Wednesday, March 25 17:50 - 18:10
Schillings, Claudia	YRMS3	Monday, March 23 17:30 - 17:50
Schindler, Thorsten	S01	Tuesday, March 24 09:00 - 09:20
Schlögl, Tristan	S07	Friday, March 27 09:40 - 10:00
Schmidt, Kersten	S18	Friday, March 27 10:00 - 10:20
Schmitt, Alexander	S01	Tuesday, March 24 17:30 - 17:50
Schmitt, Oliver	S16	Tuesday, March 24 17:50 - 18:10
Schmitt, Regina	S06	Thursday, March 26 17:10 - 17:30
Schneiders, Lennart	S10	Thursday, March 26 17:10 - 17:30
Scholle, Markus	S09	Tuesday, March 24 18:10 - 18:30
Schörner, Mario	S11	Wednesday, March 25 17:10 - 17:30
Schröder, Bettina	S07	Friday, March 27 13:10 - 13:30
Schröder, Patrick	S02	Wednesday, March 25 17:30 - 17:50
Schröppel, Christian	S08	Thursday, March 26 09:40 - 10:00
Schulz, Andreas	S19	Thursday, March 26 09:00 - 09:20
Schumacher, Joerg	S10	Tuesday, March 24 09:00 - 09:40
Schwarz, Alexander	S04	Wednesday, March 25 15:00 - 15:20

Schwarz, Stephan	S03	Wednesday, March 25 16:50 - 17:10
Schweitzer, Marcel	S17	Thursday, March 26 17:10 - 17:30
Schwenkert, Rainer		
Schwenninger, Felix	S23	Tuesday, March 24 10:20 - 10:40
Sciacovelli, Luca	S10	Friday, March 27 09:40 - 10:00
Sciumè, Giuseppe	S02	Wednesday, March 25 16:30 - 16:50
Seifert, Christian	S23	Wednesday, March 25 17:30 - 17:50
Seifried, Robert	S01	Thursday, March 26 09:40 - 10:00
Seracini, Marco	S21	Thursday, March 26 17:50 - 18:10
Serdas, Serdar	S07	Friday, March 27 10:40 - 11:00
Sesana, Debora	S17	Friday, March 27 10:00 - 10:20
Sesterhenn, Joern	S10	Friday, March 27 13:10 - 13:30
Sesterhenn, Jörn		
Sguazzo, Carmen	S04	Friday, March 27 10:00 - 10:20
Shamolin, Maxim V.	S01	Friday, March 27 10:00 - 10:20
Shayanfar, Nikta	S17	Wednesday, March 25 17:10 - 17:30
Shirazi Beheshtiha, Sanam	S02	Thursday, March 26 09:40 - 10:00
Shokina, Nina	S12	Tuesday, March 24 16:30 - 16:50
Siconolfi, Lorenzo	S09	Tuesday, March 24 09:00 - 09:40
Siebenborn, Martin	S22	Friday, March 27 09:00 - 09:40
Siegbert, Roland	S16	Tuesday, March 24 18:10 - 18:30
Siegl, Petr	S23	Tuesday, March 24 10:00 - 10:20
Sievers, Christian	S08	Friday, March 27 11:50 - 12:10
Silvello, Alessio	S03	Thursday, March 26 17:10 - 17:30
Simon, Jaan-Willem	S03	Thursday, March 26 10:00 - 10:20
Simon, Stefan	S21	Tuesday, March 24 17:30 - 17:50
Sinnet, Ryan	MS4	Monday, March 23 18:10 - 18:30
Slavashevich, Iryna	S02	Thursday, March 26 10:20 - 10:40
Soehngen, Benjamin	S06	Wednesday, March 25 17:10 - 17:30
Sokolovic, Sonja	S17	Friday, March 27 12:10 - 12:30
Soldati, Alfredo	S10	Thursday, March 26 16:30 - 17:10
Solombrino, Francesco	S19	Thursday, March 26 16:30 - 16:50
Solowjow, Eugen	S15	Wednesday, March 25 14:00 - 14:20
Speck, Robert	S22	Thursday, March 26 10:40 - 11:00
Spirito, Stefano	S20	Friday, March 27 09:40 - 10:00
Sprenger, Lisa	S11	Wednesday, March 25 17:30 - 17:50
Sridhar, Ashish	S06	Wednesday, March 25 15:00 - 15:20
Stabile, Giovanni	S07	Thursday, March 26 10:20 - 10:40
Stapleton, Scott	S08	Friday, March 27 10:20 - 10:40

Starczewski, Zbigniew		
Steeger, Karl	S04	Wednesday, March 25 15:40 - 16:00
Stein, Erwin	S24	Wednesday, March 25 17:50 - 18:10
Stein, Peter	S07	Wednesday, March 25 14:00 - 14:20
Steindl, Alois	S05	Tuesday, March 24 17:10 - 17:30
Steiner, Maria	S15	Tuesday, March 24 17:50 - 18:10
Steiner, Wolfgang	S04	Tuesday, March 24 10:20 - 10:40
Steinig, Simeon	YRMS3	Monday, March 23 17:50 - 18:10
Steinmann, Paul	MS1	Monday, March 23 18:10 - 18:30
Steinrück, Herbert	S11	Wednesday, March 25 16:50 - 17:10
Stender, Merten	S05	Wednesday, March 25 16:30 - 16:50
Stoia-Djeska, Marius	S22	Friday, March 27 10:20 - 10:40
Straub, Daniel	S15	Tuesday, March 24 09:00 - 09:20
Strecha, Johannes	S07	Thursday, March 26 16:30 - 16:50
Strobl, Michael	S03	Tuesday, March 24 17:50 - 18:10
Stupkiewicz, Stanislaw	PLL	Thursday, March 26 15:00 - 16:00
Sülü, İsmail	S04	Friday, March 27 10:40 - 11:00
Sun, Tianshi	S18	Friday, March 27 12:30 - 12:50
Susu, Livia	S14	Thursday, March 26 17:10 - 17:30
Svanadze, Merab	S06	Friday, March 27 13:10 - 13:30
Szafraniec, Franciszek	S23	Tuesday, March 24 09:00 - 09:40

## T

Tala-Ighil, Nacer	S03	Wednesday, March 25 17:50 - 18:10
Tanaka, Masato	S06	Tuesday, March 24 09:40 - 10:00
Tanwani, Aneel	MS4	Monday, March 23 16:50 - 17:10
Tatano, Rosalia	S21	Tuesday, March 24 17:50 - 18:10
Teichtmeister, Stephan	S03	Tuesday, March 24 17:10 - 17:30
Telke, Christian	S21	Friday, March 27 09:40 - 10:00
Thai, Huy	YRMS2	Monday, March 23 18:00 - 18:30
Thom, Andrea	S07	Thursday, March 26 17:50 - 18:10
Thomas, Marita	S14	Thursday, March 26 16:30 - 17:10
Thonhofer, Elvira	S18	Thursday, March 26 10:40 - 11:00
Tillmann, Andreas	YRMS4	Monday, March 23 17:10 - 17:30
Timothy, Jithender	S08	Thursday, March 26 10:40 - 11:00
Tocci, Cesare	S24	Wednesday, March 25 17:10 - 17:30
Topol, Heiko	S02	Tuesday, March 24 09:20 - 09:40
Tornabene, Francesco	S04	Wednesday, March 25 14:40 - 15:00

Trenn, Stephan	S20	Thursday, March 26 09:20 - 09:40
Trullo, Marco		
Trostorff, Sascha	S23	Wednesday, March 25 15:20 - 15:40
Trovalusci, Patrizia	S24	Wednesday, March 25 16:30 - 16:50
Tsintsadze, Magda	S04	Friday, March 27 12:50 - 13:10
Tylikowski, Andrzej	S05	Tuesday, March 24 10:00 - 10:20
Tölkes, Sascha	S08	Thursday, March 26 09:00 - 09:20

## U

Urban, Sten	S07	Tuesday, March 24 10:20 - 10:40
Uschmajew, André	YRMS5	Monday, March 23 16:30 - 16:50

## V

Vacca, Giuseppe	MS2	Monday, March 23 17:50 - 18:10
Vallicotti, Daniel	S06	Wednesday, March 25 15:40 - 16:00
Van Barel, Marc	S17	Wednesday, March 25 14:00 - 14:40
Vandereycken, Bart	YRMS5	Monday, March 23 18:10 - 18:30
Vasilyev, Vladimir	S18	Friday, March 27 12:50 - 13:10
Ventura, Giulio	S06	Tuesday, March 24 09:00 - 09:40
Verani, Marco	MS2	Monday, March 23 18:10 - 18:30
Vexler, Boris		
Viellieber, Mathias	S10	Tuesday, March 24 18:10 - 18:30
Vigdorovich, Igor	S10	Friday, March 27 10:40 - 11:00
Vinti, Gianluca		
Vitolo, Raffaele		
Vogt, Hendrik	S23	Tuesday, March 24 10:40 - 11:00
Voigt, Matthias	S20	Thursday, March 26 09:40 - 10:00
Völlmecke, Christina	S04	Friday, March 27 09:00 - 09:20
von Hoegen, Markus	S02	Wednesday, March 25 14:40 - 15:00
von Wagner, Utz	S05	Tuesday, March 24 16:50 - 17:10
Vossen, Georg	S19	Thursday, March 26 10:40 - 11:00
Vrdoljak, Marko	S19	Thursday, March 26 09:40 - 10:00

## W

Wachsmuth, Gerd	YRMS3	Monday, March 23 18:10 - 18:30
Wackerfuß, Jens		
Wagner, Arndt	S02	Wednesday, March 25 17:50 - 18:10
Wagner, Paul	S08	Friday, March 27 12:10 - 12:30

Waimann, Johanna	S06	Thursday, March 26 10:00 - 10:20
Wall, Wolfgang	MS5	Monday, March 23 18:10 - 18:30
Wallaschek, Jörg		
Wallenta, Daniel		
Walz, Nico-Philipp	S01	Thursday, March 26 10:40 - 11:00
Wang, Zhibin	S03	Wednesday, March 25 14:40 - 15:00
Waurick, Marcus	S23	Wednesday, March 25 17:10 - 17:30
Weber, Wolfgang	S12	Tuesday, March 24 17:50 - 18:10
Wedig, Walter	S15	Tuesday, March 24 16:30 - 17:10
Weinmann, Andreas		
Weißgraeber, Philipp	S03	Tuesday, March 24 16:50 - 17:10
Welker, Kathrin	S19	Wednesday, March 25 14:20 - 14:40
Wensch, Jörg	S22	Thursday, March 26 18:10 - 18:30
Wenzel, Arne	S12	Tuesday, March 24 16:50 - 17:10
Werner, Daniel	S02	Wednesday, March 25 18:10 - 18:30
Weymuth, Monika	S18	Friday, March 27 09:20 - 09:40
Wick, Thomas	S19	Thursday, March 26 10:00 - 10:20
Widany, Kai-Uwe	S18	Friday, March 27 09:00 - 09:20
Wiebe, Maria	S18	Thursday, March 26 09:40 - 10:00
Wieners, Christian	S18	Thursday, March 26 09:00 - 09:40
Wingen, Marius	S07	Wednesday, March 25 17:10 - 17:30
Winkelmann, Jan	S17	Wednesday, March 25 14:40 - 15:00
Winkler, Robert	S04	Friday, March 27 09:20 - 09:40
Winters, Andrew	S18	Wednesday, March 25 14:00 - 14:40
Wojtylak, Michal	S23	Wednesday, March 25 18:10 - 18:30
Wolfmayr, Monika	S19	Friday, March 27 10:40 - 11:00
Wollner, Winnifried	S19	Wednesday, March 25 15:20 - 15:40
Wollny, Ines	S07	Tuesday, March 24 09:20 - 09:40
Wriggers, Peter		
Wulfinghoff, Stephan	S03	Thursday, March 26 16:30 - 16:50
Wünsch, Olaf		

## X

Xu, Bai-Xiang	YRMS2	Monday, March 23 17:30 - 18:00
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## Y

Yanakieva, Ana	S06	Wednesday, March 25 18:10 - 18:30
Yang, Yinping	S01	Tuesday, March 24 10:20 - 10:40



Yevdokymov, Dmytro	S18	Friday, March 27 10:20 - 10:40
Yi, Min	S07	Wednesday, March 25 16:50 - 17:10
York Duran, José	S04	Wednesday, March 25 17:30 - 17:50

## Z

Zampogni, Luca	S21	Thursday, March 26 17:30 - 17:50
Zavarise, Giorgio		
Zeller, Sebastian	S06	Friday, March 27 12:10 - 12:30
Zerbe, Patrick	S06	Friday, March 27 10:40 - 11:00
Zhao, Ying	S07	Tuesday, March 24 16:50 - 17:10
Ziegler, Pascal	S02	Thursday, March 26 10:00 - 10:20
Zimmermann, Christopher	S04	Tuesday, March 24 10:40 - 11:00
Zinatbakhsh, Seyedmohammad	S07	Thursday, March 26 09:40 - 10:00
Zonta, Francesco	S11	Thursday, March 26 10:40 - 11:00
Zuazua, Enrique	PLL	Tuesday, March 24 14:00 - 15:00
Zuyev, Alexander	S20	Friday, March 27 11:50 - 12:10
Zwicke, Florian	S22	Friday, March 27 09:40 - 10:00

