GAMM 2025 Conference
Poznan University of Technology, Poznań, 7-11 April 2025

	Monday 7.4.2025	Tuesday 8.4.2025	Wednesday 9.4.2025	Thursday 10.4.2025	Friday 11.4.2025
08:30 – 09:00	*Registration* (LCC)	Contributed Sessions	Contributed Sessions	Contributed Sessions	Contributed Sessions
09:00 – 09:30					
09:30 – 10:00					
10:00 – 10:30			*Coffee Break* + Poster Session		
10:30 – 11:00		*Coffee Break*		*Coffee Break*	*Coffee Break*
11:00 – 11:30	Pre-GAMM Seminar "How to Conference" 11:00-12:30 (LCC 7)	Plenary Lecture 2 Karen Veroy-Grepl	**R. v. Mises Lecture**	Plenary Lecture 5 Katharina Schratz	Plenary Lecture 7 Marie-Therese Wolfram
11:30 – 12:00			**GAMM General Assembly**		
12:00 – 12:30		Plenary Lecture 3 Lars Grüne		Plenary Lecture 6 Utz von Wagner	Plenary Lecture 8 Andreas Menzel
12:30 – 13:00					
13:00 – 13:30	**Opening** (Magna) GAMM Juniors	*Lunch Break* (LCC)	*Lunch Break* (LCC) + *YAMM Lunch*	*Lunch Break* (LCC)	**Closing** (Magna)
13:30 – 14:00					
14:00 – 14:30	**Prandtl Lecture**	**Minisymposia + DFG-PP Sessions**	Ceremony: dhc of PUT to Leszek Demkowicz + Plenary Lecture 4	Contributed Sessions	*Lunch* (LCC)
14:30 – 15:00					
15:00 – 15:30	Plenary Lecture 1 Łukasz Madej				
15:30 – 16:00					
16:00 – 16:30	*Coffee Break*	*Coffee Break*	*Coffee Break*	*Coffee Break*	
16:30 – 17:00	**Young Researchers' Minisymposia**	Contributed Sessions	Contributed Sessions	Contributed Sessions	
17:00 – 17:30					
17:30 – 18:00					
18:00 – 18:30					
18:30 – 19:00	**Welcome Reception (LCC)**		**Networking event for women at GAMM 2025**		**The Grand Theater: The Magic Flute (Die Zauberflöte)**
19:00 – 19:30					
19:30 – 20:00		**Public Lecture (LCC)** Andrzej Dragan		**Conference Dinner (Earth Hall, PCC)**	
20:00 – 20:30					
20:30 – 21:00					
21:00 – 21:30					
21:30 – 22:00					

All conference activities at LCC (PUT's Campus Warta), only Conference Dinner at Earth Hall, PCC.

- Plenary, Prandtl & Public Lectures in Aula Magna at LCC
- Lunch and coffee breaks will be provided at the conference venue (LCC)
- LCC = Lecture and Conference Centre of PUT with the Aula Magna
- PCC = Poznań Congress Center at Poznań International Fair

Schedule of contributed sessions of YRMS, DFG PP, MS, and Sections S01..S27

	hours		S01	S02	S03	S04		S05	S06.1	S06.2	S07	S08	S09	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27
Monday	16:30-16:50	YRMS																													
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Tuesday	8:30-8:50	CS			S03.01 (6 slots)	S04.01 (6 slots)			S06.1.01 (6 slots)		S07.01 (6 slots)	S08.01 (6 slots)		S10.01 (6 slots)		S12.01 (6 slots)			S15.01 (6 slots)		S17.01 (6 slots)	S18.01 (6 slots)	S19.01 (6 slots)			S22.01 (6 slots)		S24.01 (6 slots)	S25.01 (6 slots)		
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Tuesday	14:00-14:20	DFG PP MS																													
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	15:40-16:00																														
Tuesday	16:30-16:50	CS	S01.01 (5 slots}		S03.02 (6 slots)	S04.02 (6 slots)			S06.1.02 (4 slots)		S07.02 (6 slots)	S08.02 (6 slots)		S10.02 (6 slots)	S11.01 (5 slots)	S12.02 (4 slots)		S14.01 (6 slots)	S15.02 (5 slots)	S16.01 (6 slots)	S17.02 (5 slots)	S18.02 (5 slots)	S19.02 (5 slots)	S20.01 (6 slots)		S22.02 (6 slots)	S23.01 (3 slots)		S25.02 (6 slots)		
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Wednesday	8:30-8:50	CS	S01.02 (5 slots)			S04.03 (5 slots)			S06.1.03 (5 slots)		S07.03 (5 slots)			S10.03 (5 slots)	S11.02 (5 slots)	S12.03 (4 slots)		S14.02 (5 slots)	S15.03 (5 slots)		S17.03 (4 slots)	S18.03 (5 slots)	S19.03 (5 slots)	S20.02 (5 slots)	S21.01 (3 slots)	S22.03 (5 slots)			S25.03 (5 slots)	S26.01 (5 slots)	
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Wednesday	16:30-16:50	CS	S01.03 (3 slots)	S02.01 (6 slots)		S04.04 (6 slots)					S07.04 (6 slots)	S08.03 (6 slots)		S10.04 (6 slots)				S14.03 (6 slots)	S15.04 (6 slots)	S16.02 (6 slots)	S17.04 (5 slots)	S18.04 (6 slots)	S19.04 (5 slots)	S20.03 (6 slots)	S21.02 (4 slots)	S22.04 (5 slots)			S25.04 (6 slots)	S26.02 (6 slots)	
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Thursday	8:30-8:50	CS		S02.02 (6 slots)	S03.03 (6 slots)	S04.05 (6 slots)		S05.01 (6 slots)		S06.2.01 (6 slots)	S07.05 (5 slots)	S08.04 (6 slots)		S10.05 (3 slots)				S14.04 (6 slots)	S15.05 (6 slots)	S16.03 (6 slots)		S18.05 (6 slots)	S19.05 (5 slots)	S20.04 (6 slots)	S21.03 (6 slots)	S22.05 (6 slots)			S25.05 (6 slots)	S26.03 (6 slots)	S27.01 (6 slots)
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Thursday	14:00-14:20	CS			S03.04 (6 slots)	S04.06 (6 slots)	S04.07 (6 slots)	S05.02 (6 slots)		S06.2.02 (6 slots)	S07.06 (3 slots)	S08.05 (6 slots)	S09.01 (6 slots)					S14.05 (6 slots)		S16.04 (6 slots)		S18.06 (6 slots)		S20.05 (6 slots)	S21.04 (6 slots)	S22.06 (6 slots)			S25.06 (6 slots)		S27.02 (6 slots)
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Thursday	16:30-16:50	CS			S03.05 (6 slots)	S04.08 (6 slots)	S04.09 (3 slots)	S05.03 (6 slots)		S06.2.03 (5 slots)		S08.06 (6 slots)	S09.02 (4 slots)				S13.01 (6 slots)	S14.06 (6 slots)		S16.05 (6 slots)		S18.07 (3 slots)		S20.06 (5 slots)		S22.07 (4 slots)			S25.07 (6 slots)		S27.03 (5 slots)
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Friday	8:30-8:50	CS			S03.06 (6 slots)	S04.10 (6 slots)	S04.11 (6 slots)	S05.04 (4 slots)		S06.2.04 (6 slots)							S13.02 (6 slots)	S14.07 (6 slots)		S16.06 (6 slots)		S18.08 (6 slots)		S20.07 (6 slots)					S25.08 (6 slots)		S27.04 (5 slots)
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Monday, April 7

	14:00
	100 years of Prandtl's Mixing Length: falling short for aerodynamic analysis? *Rossow, Cord-Christian*

	15:00
PL 1	**Computational microstructure design: harnessing the synergy of numerical and experimental investigations** *Madej, Lukasz*

	16:30	16:50	17:10	17:30	17:50	18:10
YRMS1	**Mixed precision preconditioning strategies for GMRES** *Vieublé, Bastien*	**Mixed Precision Iterative Refinement for Linear Inverse Problems** *Onisk, Lucas*	**Inner product free Krylov methods for large-scale inverse problems** *Sabaté Landman, Malena*	**A stable one-synchronization variant of reorthogonalized BCGS and its application in s-step GMRES** *Ma, Yuxin*		
YRMS2	**Constitutive Kolmogorov–Arnold Networks (CKANs): Combining Accuracy and Interpretability in Data-Driven Material Modeling** *Abdolazizi, Kian*	**Physics-augmented neural networks meet data-driven identificaton – A dual-stage constitutive modeling framework** *Linden, Lennart*	**Material Model Discovery from Physics-Enforced Neural Networks** *Meyer, Knut Andreas*	**Application of Plasticity Theory in Automated Model Discovery** *Boes, Birte*	**Physics-augmented neural networks for efficient multiscale beam simulations** *Schommartz, Jasper o.*	**Effective material modeling of complex viscoelastic shell structures with artificial neural networks** *Geiger, Jeremy*

YRMS3	**Structure-preserving splitting methods for closed port-Hamiltonian systems** *Mönch, Marius*	**Discrete gradient methods for semi-explicit port-Hamiltonian DAEs** *Morandin, Riccardo*	**Structure-preserving finite element method for port-Hamiltonian systems with implicit or differential constitutive relations** *Bendimerad-Hohl, Antoine*	**Structure-preserving discretization of geometrically exact beams in the framework of Lie group variational integrators** *Herrmann, Maximilian*	**Determination of ISS gain functions leveraging finite-dimensional approximations with applications to dissipative systems** *Hillebrecht, Birgit*	**Learning of Hamiltonians, variational principles, and symmetries from data** *Offen, Christian*
YRMS4	**Local boundary conditions in nonlocal hyperelasticity via heterogeneous horizons** *Schönberger, Hidde*	**Three dimensional gradient plasticity, a Gamma-Convergence approach** *Fortuna, Martino*	**Variational methods applied to discrete models in brittle damage** *Bonhomme, Elise*	**On Scaling Properties For A Class Of Two-Well Problems For Higher Order Homogeneous Linear Differential Operators** *Tissot, Camillo*	**Pattern Formation in Biomembranes: from Interpolation Inequalities to a Scaling Law result** *Pešić, Anastasija*	**Energy barriers for boundary nucleation in solid solid phase transitions** *Zemas, Konstantinos*

Monday, April 7

	16:30	16:50	17:10	17:30	17:50	18:10
YRMS5	**Derivation of the Vlasov-Stokes equation** *Höfer, Richard*	**Homogenization of the compressible Navier–Stokes equations in critically perforated domains** *Lemming, Friederike*	**Non-existence of mean-field models for particle orientations in suspensions** *Schubert, Richard*	**Understanding the Phase Transition in the 2D Becker-Döring Model** *Scholten, Jens*	**Sharp interface dynamics in viscous two-phase flows: stability and long-time behavior** *Salguero, Elena*	
YRMS6	**Towards a multi-phasefield model to analyze residual stresses** *Hellebrand, Sonja*	**A Phase-Field Framework for the Modeling of Rate-(In)Dependent Hysteretic Behavior of Phase-Transforming Solids** *El khatib, Omar*	**Phase-field modeling of deformation twinning and its interaction with plastic slip in magnesium during nano-indentation** *Rezaee-Hajidehi, Mohsen*	**A Geometrical Approach to Modeling Wetting on Structured Surfaces** *Kunz, Jana*	**On the energy decomposition in variational phase-field models for brittle fracture under multi-axial stress states** *Vicentini, Francesco*	**Neural networks meet fracture phase-field: Hybrid modelling of crack propagation** *Dammaß, Franz*

Tuesday, April 8

	8:30	8:50	9:10	9:30	9:50	10:10
S03.01	**Sideways Cracks in Elastomers: Experimental Insights & Phase-Field Modelling** *Moreno-Mateos, Miguel Angel*	**Uncertainties in phase-field fracture simulations of simple experiments** *Zhang, Silu*	**A geometrically exact phase field approximation of cohesive fracture** *Lammen, Henning*	**A phase-field fracture model of nearly incompressible hyperelastic material based on a mixed formulation** *Zhang, Le*	**Phase-field modeling for failure behavior of polymer fiber-reinforced high-performance concrete using the Schapery viscoelastic model** *Margalho de Barros, Marcos Andre*	**An extended phase-field method for the efficient simulation of fracture processes** *Löhnert, Stefan*
S04.01	**Sliding contact of two flexible rods: the role of configurational forces** *Vetyukov, Yury*	**Sliding contact of two flexible rods: the role of configurational forces** *Vetyukov, Yury*	**A Finite Swelling Beam Model with Axial and Radial Diffusion** *Alzate cobo, Juan c.*	**Twisted Wire Strands under Coupled Bending and Torsion** *Hawwash, Muhannad*	**Finite element modal analysis of moving bandsaw blades using incremental rod theory with consideration of the pre-stress distribution in the cross section** *Scheidl, Jakob*	**The effect of boundary rotations and kinematic imperfections on clamped column buckling** *Hedvard, Michelle*
S06.1.01	**A novel algorithm for crystal plasticity based on an augmented Lagrangian formulation** *Niehüser, Alexander*	**Analysis and comparison of interior-point methods for rate-independent single-crystal plasticity** *Steinmetz, Felix*	**Numerical Investigation and Validation of a Riveted Connection with LPBF AlSi10Mg Components based on a Thermomechanical Coupled Chaboche-GTN Approach** *Richter, Lukas*	**A novel procedure for identification of material parameters in advanced creep-fatigue constitutive model based on artificial neural networks** *Jahnke, Alexander*	**Hybrid data-driven and physics-informed regularized learning of cyclic plasticity with neural networks** *Hilderbrand, Stefan*	**On Unifying Tensor and Matrix Approaches in Material Modeling** *Schlebusch, Rainer*

S07.01	**Steady vibration problems in the theory of Moore-Gibson-Thompson thermoelasticity for materials with voids** *Svanadze, Merab*	**Modelling and simulation of experiments for fractured and fracturing porous media** *Wagner, Arndt*	**Modelling of resuspension and sedimentation of solid particles in fractured and fracturing porous media using a TPM-phase-field approach with mass production terms** *Rivas, Yann*	**Coupling phase-field fracture with non-isothermal fluid-structure interaction problems** *von Wahl, Henry*	**A phase field model to describe the behavior of volcanic crystals** *Haddenhorst, Hendrik Holger*	**Modeling of hydrogen-embrittlement using a monolithically coupled, nonlocal Gurson-Tvergaard-Needleman damage model** *Prüger, Stefan*

Tuesday, April 8

	8:30	8:50	9:10	9:30	9:50	10:10
S08.01	**Micromechanical modelling of void growth in metals and alloys deforming by slip and twinning** *Virupakshi, Saketh*	**Micromechanical modelling of void growth in metals and alloys deforming by slip and twinning** *Virupakshi, Saketh*	**On the efficient solution of cell problems by means of wavelet-enhanced FFT-approaches** *Kaiser, Tobias*	**Analysis of an X-FFT solver for two-dimensional thermal homogenization problems** *Gehrig, Flavia*	**Modeling of porous materials on multiple length scales using FE and FFT approaches** *Dahler, Julian*	**Thermo-mechanically coupled FE-FFT-based simulation of polycrystalline materials** *Gierden, Christian*
S10.01	**Progress in high-moment turbulent scaling laws of wall-bounded shear flows** *Oberlack, Martin*	**Progress in high-moment turbulent scaling laws of wall-bounded shear flows** *Oberlack, Martin*	**Momentum Transfer of Riblets in the Drag Increasing Regime** *Rapp, Natalie*	**Unsteady turbulent energy dissipation in an axisymmetric turbulent wake** *Obligado, Martin*	**Inverse energy cascade within atmospheric convective structures** *Jędrejko, Paweł*	**Heat transfer in thermally developing, inhomogeneously heated turbulent pipe flows** *Bürk, Leo*
S12.01	**Analysis of the formation of caustic by a concave reflector in a geometric and wave field** *Kulowski, Andrzej*	**Analysis of the formation of caustic by a concave reflector in a geometric and wave field** *Kulowski, Andrzej*	**Numerical Study on Enhanced Impedance Matching for Symmetric Lamb Waves in FML with Integrated Sensors** *Rottmann, Max*	**Acoustic black holes in the Rayleigh-Lamb Theory** *Schoenebeck, David*	**Wave propagation in non uniform media by linear expansion of the refraction law** *Bassetti, Alessandro*	**One-way wave equation** *Bschorr, Oskar*
S15.01	**On significance of probabilistic entropy and distance in elasto-plasticity problems** *Kamiński, Marcin*	**On significance of probabilistic entropy and distance in elasto-plasticity problems** *Kamiński, Marcin*	**Random vibrations of internally supported plates by the Boundary Element Method** *Guminiak, Michał*	**Combining first-order second-moment method and internal numerical differentiation for efficient uncertainty quantification** *Tröger, Jendrik-Alexander*	**On modeling of porous-media wetting with randomly distributed hydrophobic defects** *Gossel, Lisanne*	**Estimates of errors generated by uncertain data in a coupled piezoelectric problem** *Samrowski, Tatiana*

Tuesday, April 8

	8:30	8:50	9:10	9:30	9:50	10:10
S17.01	**Accelerating operator Sinkhorn iteration with overrelaxation** *Uschmajew, André*	**Accelerating operator Sinkhorn iteration with overrelaxation** *Uschmajew, André*	**Mixed-Precision Parallel Tensor Train Operations** *Oktay, Eda*	**Mixed-precision techniques for the low-rank Lyapunov ADI** *Schulze, Jonas*	**A hybrid Chebyshev-Tucker tensor format with applications to multi-particle modelling** *Sun, Bonan*	**Mixed-precision iterative refinement for low-rank Lyapunov equations** *Liu, Xiaobo*
S18.01	**Lattice Boltzmann for 2D linear elastodynamics with Dirichlet and Neumann boundary conditions** *Boolakee, Oliver*	**Lattice Boltzmann Method for linear elastodynamics in 3D** *Weverbergh, Julie*	**Numerical solution of the fractional Euler-Bernoulli equation for a beam with fixed-supported and fixed-free ends** *Nowak, Anna*	**Numerical approximation of fractional compositions of differential operators with fixed memory length and its application to the problem of fractional continuum mechanics** *Kustal, Dominika*	**Analysis of a fractional-order model for diabetes mellitus incorporating education and media awareness campaigns using the Two-step Newtonian Polynomial approach** *Prajapati, Vishalkumar*	**Investigation of a fuzzy fractional diabetes model involving Glucose–Insulin alliance scheme with a fuzzy double parametric approach** *Sartanpara, Parthkumar P.*
S19.01	**A Riemannian View on PDE-constrained Shape Optimisation** *Romero, Estefania Loayza*	**A Riemannian View on PDE-constrained Shape Optimisation** *Romero, Estefania Loayza*	**A least-squares space-time approach to parabolic shape optimization** *Stahl, Michael*	**Low-regret shape optimization in the presence of missing data** *Simon, John Sebastian*	**A combined phase field - sharp interface approach for PDE constrained shape optimization** *Hinze, Michael*	**Incorporating strain decomposition into fracture propagation simulations using shape optimization algorithms** *Suchan, Tim*

S22.01	**Rational Surrogate Modeling of Parametric Dynamical Systems** *Römer, Ulrich*	**Rational Surrogate Modeling of Parametric Dynamical Systems** *Römer, Ulrich*	**A parallel batch greedy algorithm in reduced basis methods** *Reich, Niklas*	**Towards an efficient shifted Cholesky-QR for applications in model order reduction** *Bindhak, Maximilian*	**Stability and Error Analysis of Reduced-Order Methods Based on POD with Finite Element Solutions for Nonlocal Diffusion Problems** *Nie, Yufeng*	**Discontinuous Galerkin and Trefftz methods for Model Reduction** *Born, Tobias*

Tuesday, April 8

	8:30	8:50	9:10	9:30	9:50	10:10
S24.01	**Fritz Noether - a great mathematician and victim of various political dictatorships** *Altenbach, Holm*	**Investigation on the rolling sphere on a rotational surface – in memory of Fritz Nöther** *Ziegenhorn, Matthias*	**Investigation on the rolling sphere on a rotational surface – in memory of Fritz Nöther** *Ziegenhorn, Matthias*	**The quest for explicit formulas for conformal mappings onto the unit circle: Mertens, Schwarz, and Christoffel** *Ullrich, Peter*	**The Evolution of André Lévêque's Thermal Boundary-Layer Solution** *McMahon, Niall*	**A graphical method for the synthesis of a container emptying mechanism** *Buśkiewicz, Jacek*
S25.01	**On uniqueness in structured model learning** *Morina, Erion*	**Genetic column generation for adversarial multiclass classification** *Penka, Maximilian*	**Kernel-based Greedy Approximation of Parametric Elliptic Boundary Value Problems** *Haasdonk, Bernard*	**Data analysis of architected structural geometries with persistent homology** *Milor, Abel Henri Guillaume*	**Centralities in urban multilayer networks** *Stoll, Martin*	**Data-Driven Prediction of Dynamic Systems based on Sparse Reconstruction and Neural Networks** *Du, Lin*

	11:00
PL 2	**Physics-Based Model Order Reduction in Digital Twins: Challenges and Opportunities in the Multi-Scale Material Setting** *Veroy-Grepl, Karen*

	12:00
PL 3	**Optimization-Based Control for Large-Scale and Complex Systems: When and Why Does It Work?** *Grüne, Lars*

	14:00	14:20	14:40	15:00	15:20	15:40

MS1	**Divide, Learn, and Conquer in Image Classification** *Klawonn, Axel*	**Additively Preconditioned Trust Region Strategies for Machine Learning** *Krause, Rolf*	**Domain Decomposition for Randomized Neural Networks** *Heinlein, Alexander*	**Multilevel and parallel approaches to enhance the training of Transformers** *Salvadó Benasco, Marc*		
MS2	**Plastic strain induced phenomena at temperatures close to absolute zero** *Skoczen, Blazej*	**Precise strain analyses in the small deformation range using DIC measurement data and approximation-based smoothing** *Lehmann, Thomas*	**Damage analysis of power engineering steels supported by DIC/ESPI techniques** *Kowalewski, Zbigniew*	**Determination of fatigue characteristics in the normal stress-fatigue life system** *Łagoda, Tadeusz*	**Challenges and solutions in optical measurement methods for experimental mechanics applications** *Kujawinska, Małgorzata*	**Deformation and temperature determination using DIC/TG measurement** *Hartmann, Stefan*

Tuesday, April 8

	14:00	14:20	14:40	15:00	15:20	15:40
MS4	**On Neural network-enhanced integrators for dynamical systems** *Othmane, Amine*	**Error bounds for Koopman-based predictors and their application in control** *Schaller, Manuel*	**An experimental comparison of data-driven virtual sensing methods for predictive maintenance** *Heindel, Leonhard*	**Ocean Wave Dynamics: Data and Evolution Equations** *Hoffmann, Norbert*	**Data Driven Dynamics using Recurrent Neural Networks - Stabilization, Prediction & Uncertainty Quantification** *Hetzler, Hartmut*	**Reservoir Computing: A Nonlinear Dynamics Perspective** *Stender, Merten*
PP01	**Design Optimization of Soft Robots Based on Workspace Constraints** *Schindler, Leon*	**Koopman Based Trajectory Optimization with Periodic Boundaries for Co-Design** *Raff, Maximilian*	**Surrogate-based Robust Tracking Controller for a Lambda Robot** *Hajipour Talkouei, Sanam*	**A constraint-satisfying neural network architecture for the generation of Grashof fulfilling four-bar linkages** *Röder, Benedict*	**Model Predictive Path-Following Control of a Quadrotor** *Leprich, David*	**Optimization-based design assistance for planning of stereotactic surgeries with curved cannulae** *Flaßkamp, Kathrin*
PP02	**Representation of control Lyapunov functions with neural networks** *Sperl, Mario*	**Adaptive Step Sizes for Stochastic Gradient Descent** *Köhne, Frederik*	**Generalisation Error for Semi-Supervised Learning Using Graph Neural Networks** *Ayday, Nil*	**Data-Driven Spatial Adaptivity for Regularising Inverse Problems** *Neumayer, Sebastian*	**Neural Sampling from Boltzmann Densities** *Chemseddine, Jannis*	**Algebraic structures and invariants of Gradient Flow for Linear Neural Networks** *Torres, Angelica*

Tuesday, April 8

	14:00	14:20	14:40	15:00	15:20	15:40
PP03	**Material Design for Multiple Loads** *Sommella, Lorenzo*	**Predicting plastic activity in disordered solids via geometric measures** *Shekh Alshabab, Somar*	**A dimensionally reduced capillary problem and its phase-field approximation** *Sciaraffia, Luciano, Wang, Yizhen*	**Arclength methods and dissipative processes – Analysis and numerical experiments** *Rörentrop, Felix*	**Towards dynamic phase-field fracture in finite strains** *Tornquist, Sven*	**Computational Semiconvexification for Relaxation in Isotropic Damage** *Neumeier, Timo*
PP04	**From Injury to Full Recovery: Monitoring Patient Progress Through Advanced Sensor and Motion Capture Technology** *Andres, Annchristin*	**Investigation of the influence of screw position and screw insertion on the local micromechanics of the fracture gap and the interfragmentary movement** *Roland, Michael*	**Cell seeding dynamics in a porous scaffold material with applied sensitivity analysis** *Jäger, Henry*	**Flexible macro-micro coupling for liver applications** *Gerhäusser, Steffen, Uekermann, Benjamin*	**Enriched and Discontinuous Galerkin Discretizations for a Cardiac Mechanics Benchmark Problem** *Stengel, Laura*	**Advancing Endovascular Treatment: Simulating Thrombus Formation in Patient-Specific Aneurysms** *Holzberger, Fabian*
PP05	**Anomalous dissipation in compressible and incompressible flow** *Zinchenko, Georgy*	**Multi-point probability density hierarchy for homogeneous isotropic turbulence** *Görtz, Simon*	**Statistical conservation laws for the scalar and Navier-Stokes equations** *Huang, Qian*	**Toward machine-learned implicit large-eddy simulations of compressible turbulence** *Bezgin, Deniz A.*		

Tuesday, April 8

	16:30	16:50	17:10	17:30	17:50	18:10
S01.01	**Trajectory scaling for redundant manipulators—evolution of selected algorithms** *Wojtyra, Marek*	**Trajectory scaling for redundant manipulators—evolution of selected algorithms** *Wojtyra, Marek*	**Optimal control of a pendulum driven via a frictional clutch: Challenges and solution approaches** *Capobianco, Giuseppe*	**Data-Driven Inverse Dynamics Control for a Five-bar Parallel Robot** *Malczyk, Paweł*	**Improving the accuracy of a generalized-α method for multibody system models with large rotations** *Arnold, Martin*	
S03.02	**Three-dimensional simulation of crack initiation in ice shelves at pinning points** *Sondershaus, Rabea*	**A 2D Approach to Predict the High-Cycle Fatigue Life of Clinched Joints** *Chen, Chin*	**Dynamic fracture with thin structures and bond-associated peridynamics** *Partmann, Kai*	**Assessment of the debonding failure in multilayer structures using a closed-form analytical model** *Becker, Wilfried*	**An explicit finite element solver for a dynamic formulation of gradient-enhanced damage** *Sobisch, Lennart*	**Simulation of crack surface friction within the phase-field method** *Koch, Leonie*
S04.02	**A novel mixed-hybrid, higher-order accurate formulation for Kirchhoff–Love shells** *Neumeyer, Jonas*	**Material reconstruction of heterogeneous isogeometric Kirchhoff-Love shells under various load conditions** *Łazorczyk, Bartłomiej*	**Be negative: topology optimization of an existing FE-Model by subtracting the thickness of a shell** *Berendes, Philipp*	**A polygonal Reissner-Mindlin plate formulation based on the scaled boundary finite element method considering locking effects** *Hellers, Anna*	**The role of fiber orientation in the analysis and simulation of toroidal hoses under internal pressure** *Hoesch, Quirin*	**An efficient geometrically-exact nonlinear shell formulation based on Rodrigues parameters** *Sousa, Cinthia*
S06.1.02	**Stress partitioning in thermoelastoplastic materials** *Lalović, Nikola*	**Different aspects of modelling propagative instabilities in aluminum** *Mucha, Marzena*	**On The Blow-Up Solutions In Nonlinear Elasticity Theory** *Gawinecki, Jerzy*	**Smoothed Particle Hydrodynamics Modeling of Solid-state Deposition Process Friction Surfacing** *Elbossily, Ahmed*		

Tuesday, April 8

	16:30	16:50	17:10	17:30	17:50	18:10
S07.02	**Smoothed Particle Hydrodynamics as a Tool for Improving Deep-Hole Drilling** *Baumann, Andreas*	**An approach to model the influence of hydrodynamics on wet grinding** *Thunich, Paul*	**Periodic self-propulsion of a swimmer** *Edelmann, Joris*	**Seamless Simulation Across Regimes – Uniformly Stable DG Discretization for Coupled Stokes-Darcy Flow** *Kowalski, Julia*	**Coupled CFD-DEM numerical analysis of reactive flow in a porous zone** *Wardach-Święcicka, Izabela*	**Space-Time Block-structured Meshing in Coupled Problems with Moving Domains** *Schwentner, Teresa*
S08.02	**Generalized Criteria for Hyper-integration in Reduced-Order Multiscale Simulation** *Hütter, Geralf*	**Generalized Criteria for Hyper-integration in Reduced-Order Multiscale Simulation** *Hütter, Geralf*	**Statistically compatible hyper-reduction for variationally consistent homogenization and its application to diffusion** *Hauck, Jan*	**Nonlinear reduced order modeling for computational homogenization using manifold learning and hyperreduction techniques** *Faust, Erik*	**An efficient multi-scale finite element approach for ferro-electric continua** *Wakili, Reschad*	**Hyper-reduction through empirically corrected clustering** *Wulfinghoff, Stephan*
S10.02	**Error decomposition of large-eddy simulation applied to turbulent combustion** *Geurts, Bernard*	**Error decomposition of large-eddy simulation applied to turbulent combustion** *Geurts, Bernard*	**Application of Extended Large-Eddy Simualtion (XLES) to turbulent channel flow** *Marinković, Pavle*	**Investigating the Impact of Forcing Mechanisms on Passive Scalar Mixing Using Stochastic One-Dimensional Turbulence** *Joshi, Abhishek*	**Formulation of an improved wall model for turbulent concentric coaxial pipe flows** *Yap, Li Toong*	**Reconstruction of inhomogeneous turbulence based on stochastic Fourier-type integrals** *Lindner, Felix*
S11.01	**Arbitrary Lagrangian-Eulerian surface discretizations for self-evolving Navier-Stokes manifolds** *Sauer, Roger*	**Two-Phase Flow Simulations Using Adaptive Time Refinement for Injection Molding Applications** *Fabón, Blanca Ferrer*	**Advanced modelling of fibre dynamics in a transparent substitute liquid using the Jeffrey equation and PIV analysis** *Vaupel, Tim*	**Diffuse interface method for two-phase flows: development and validation, towards phase change modelling** *Pozorski, Jacek*	**Phase-field modeling and computation of N-phase mixture flows** *ten Eikelder, Marco*	

Tuesday, April 8

	16:30	16:50	17:10	17:30	17:50	18:10
S12.02	**Acoustic Waves at Very Low Frequency: Propagation and Building Insulation** *Mastino, Costantino Carlo*	**Stretch ceilings in church acoustics design** *Sygulska, Anna*	**Can one hear the shape of a crack in a drum? - An analytical and data-based approach** *Zilk, Philipp*	**Time-Domain Simulation of Brass Instruments with the Method of Characteristics** *Aurich, Daniel*		
S14.01	**From compressible to incompressible, MHD with non-conservative boundary condition** *Wróblewska-Kamińska, Aneta*	**From compressible to incompressible, MHD with non-conservative boundary condition** *Wróblewska-Kamińska, Aneta*	**Existence and weak-strong uniqueness of suitable weak solutions to an anisotropic electrokinetic flow model** *Plato, Luisa*	**Long-time asymptotics of the damped Euler equations by parabolic scaling** *Eiter, Thomas*	**Analysis of a viscoplastic Burgers equation** *Thomas, Marita*	**Darcy's law for inhomogeneous incompressible flows** *Oschmann, Florian*
S15.02	**Deep learning methods for stochastic Galerkin approximations of ranodm PDEs** *Barth, Andrea*	**Stochastic Galerkin method for delay differential equations with random parameters** *Pulch, Roland*	**Markov chain Monte Carlo with particle-solver-based likelihoods** *Løvbak, Emil*	**An adaptive Quasi Monte Carlo approach for concentrated distributions** *Zhou, Jinyi*	**Earthquake-induced multi-modal non-linear stochastic response of the guy line in the guyed tower** *Weber, Hanna*	
S16.01	**Gradient type numerical methods of shape and topological optimization** *Sokolowski, Jan*	**Gradient type numerical methods of shape and topological optimization** *Sokolowski, Jan*	**Numerical solutions of gradient flow dynamical system for shape optimization in elasticity** *Tan, Yixin*	**IGA Topology optimization based on topological derivatives** *Teixeira, Guilherme Henrique*	**Biomimetic Regularization of the Structural Optimization Method - Numerical Aspects** *Nowak, Michał*	**Optimizing Printing Nozzle Design for Fused Deposition Modeling** *Tillmann, Steffen*

Tuesday, April 8

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S17.02	**Structured rational matrices and their linearizations** *Dopico, Froilán*	**Structured rational matrices and their linearizations** *Dopico, Froilán*	**System representation of rational functions with poles outside an annulus** *Wojtylak, Michał*	**The closure of the bundle of a matrix pencil** *Pagacz, Patryk*	**Numerical radius symmetry and relations of Birkhoff-James and numerical radius orthogonality for different classes of operators** *Cvetkovic Ilic, Dragana*	
S18.02	**Fluid-Structure Interactions in ALE coordinates** *Hergl, Chiara*	**A monolithic space-time temporal multirate finite element framework for interface and volume coupled problems** *Wick, Thomas*	**A Local hp Space-Time Multigrid Approach for Tensor-Product Finite Element Discretizations of the Stokes Equations** *Margenberg, Nils*	**Space-time least-squares FEM for convection-diffusion problems** *Köthe, Christian*	**Projection Methods in the Context of Nematic Crystal Flow** *Reiter, Maximilian*	
S19.02	**Convergence of variational and iterative regularization methods under a range invariance condition** *Kaltenbacher, Barbara*	**Goal-oriented optimal sensor placement for PDE-constrained inverse problems** *Mattuschka, Marco*	**Material Law Identification in Boundary Value Problems for Fiber Spinning** *Kannengießer, Lukas*	**New results on optimal control problems with total variaton penalty** *Haaf, Nico*	**Conditional gradient methods for total variation regularization with PDE constraints** *Iglesias, José A.*	**Optimal control of a Fokker-Planck/transport equation with BV-drift using renormalized solutions** *Lange, Christian*
S20.01	**Model predictive control for uncertain systems - robust and data-driven designs** *Köhler, Johannes*	**Model predictive control for uncertain systems - robust and data-driven designs** *Köhler, Johannes*	**Near-optimal performance of stochastic economic MPC** *Schießl, Jonas*	**Using Polar Coordinates for Sub-Riemannian Formation Control of Mobile Robots** *Rosenfelder, Mario*	**Vertical Vibration Reduction of Maglev Vehicles using Nonlinear Model Predictive Control** *Hermle, Mario*	**Model hierarchy for the design of a MPC controller in gas networks** *Ortegón-Villacorte, Andrés*

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S22.02	**The Fast Newton Transform: Interpolation in downward closed spaces reaching the optimal geometric approximation rates for Bos-Levenberg-Trefethen functions** *Hecht, Michael*	**On a multigrid solution technique for the three-dimensional incompressible Navier-Stokes equations using discretely divergence-free finite elements** *Lohmann, Christoph*	**Preconditioning for a coupled Navier-Stokes Cahn-Hilliard model for the morphology evolution in organic solar cells** *Çiloğlu, Pelin*	**Multilevel Overlapping Schwarz Preconditioners for Fluid Problems** *Köhler, Stephan*	**Temporal Multiscale Modelling of Long-term Damage in Fluid-structure Interaction Problems** *Chang Dominguez, Dayron*	**Development of a GPU-accelerated, Finite Element based Dynamical Core for Sea Ice** *Richter, Thomas*
S23.01	**Multi-objective Design Optimization for Axial Turbine via Deep Learning-Assisted Latent Space Exploration** *Raj, Rohit; Rentschler, Tobias*	**Physics-constrained frequency response prediction of structural dynamic systems via deep learning** *Libner, Christian*	**Learning Differential Equations from Numerically Integrated Artificial Neural Networks** *Bielitz, Timo*			
S25.02	**A Neural Operator based Microscale Surrogate Model for Multiscale Simulations of Time Dependent Materials** *Jeyaraj, Dhananjeyan*	**Towards data-driven inelasticity for spatial problems: A neural network-based propagator approach** *Harnisch, Marius*	**Deep learning for non-iterative generation of optimized finite element meshes** *Legeland, Martin*	**Mathematical and numerical analysis of the robustness of Data-Driven Identification (DDI) method** *Hachem, Nour*	**Coupled CANN-DEM Simulation in Solid Mechanics** *Friedrich, Jonathan Georg*	**Comparison of Generative Learning Methods for Turbulence Modeling** *Drygala, Claudia*

Wednesday, April 9

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S01.02	**Challenges of bringing ML-assisted Model Predictive Control for Wind Turbines into Industrial Practice** *Zierath, János*	**Challenges of bringing ML-assisted Model Predictive Control for Wind Turbines into Industrial Practice** *Zierath, János*	**Incorporating Nonlinear Elastic Forces in the Nodal-Based Floating Frame of Reference Formulation** *Holzinger, Stefan*	**Techniques for recovering stresses from dynamic multibody simulations for fatigue assessment** *Nemov, Aleksandr*	**Analysis of Frictional Sliding Contact in Magnetic Track Brakes: A Simplified Methodology** *Kocbay, Emin*	
S04.03	**Prestressing of concrete using iron-based shape memory alloy (Fe-SMA) short fibers: Experimental and numerical analysis** *Tabrizikahou, Alireza*	**Prestressing of concrete using iron-based shape memory alloy (Fe-SMA) short fibers: Experimental and numerical analysis** *Tabrizikahou, Alireza*	**Experimental Determination of a Load Approach FE-Method for Reducing the Formwork Support Time of Reinforced Concrete Ceilings** *W. Müllner, Herbert*	**Experimental and Numerical Analysis of the Impact of Perforation bands in the Facing on the Behavior of Sandwich Plates** *Chuda-Kowalska, Monika*	**Numerical and experimental analysis of lightweight bar-membrane joints** *Zmuda Trzebiatowski, Marcin Adam*	
S06.1.03	**1D model of twin branching in shape memory alloys accounting for the energy dissipation effects** *Stupkiewicz, Stanisław*	**Evaluating chemo-mechanical coupling in phase-field methods: Benchmarks and Insights** *Kannenberg, Thea*	**Multiphase-Field Modeling of Microstructure Evolution during Solid-State Processing of Al Alloys** *Nanayakkara, H.A.T Vimukthi*	**New insights into grain boundary kinetics by phase-field crystal modeling** *Punke, Maik*	**Numerical Modelling of Deformation-Induced Martensitic Transformation in Additively Manufactured 316L Stainless Steel under Cryogenic Conditions** *Maasch, Philipp*	

Wednesday, April 9

	8:30	8:50	9:10	9:30	9:50	10:10
S07.03	**Identification of Ferroelectric Energy Harvesting Cycles: from Material Modeling to Process Optimization** *Warkentin, Andreas*	**Multiscale modeling of structured magnetorheological elastomers using physics-augmented neural networks** *Roth, Heinrich*	**Numerical modeling of the thermo-mechanical and electrical behavior of a sensor-integrating jaw coupling** *Menning, Johannes D.M.*	**Energy, Momentum and Entropy Consistent Integrators for Discrete Coupled Systems Using GENERIC** *Reiff, Pit*	**Space-Time Discretization of Nonlinear Coupled Thermo-Elastodynamical Problems in a Novel, Polyconvexity-Inspired, Mixed GENERIC Framework** *Hille, Moritz*	
S10.03	**LES/PDF Simulations of Turbulent Reacting Flows** *Muradoglu, Metin*	**LES/PDF Simulations of Turbulent Reacting Flows** *Muradoglu, Metin*	**CFD Based Kinetic Parameter Estimation Method for Arbitrary Reactor Geometries** *Qureshi, Muhammad Uzair*	**Development of detailed surface reaction mechanism for methanation process based on experiments** *Rakhi -*	**Kinetic investigation of methanation over Ni-CeO2 using a one-dimensional model** *Ibrayeva, D.*	
S11.02	**High order Sharp Interface numerical methods for multiphase flows** *Kummer, Florian*	**High order Sharp Interface numerical methods for multiphase flows** *Kummer, Florian*	**Modelling multi-scale multiphase flows with the MultiMorph Model** *Lucas, Dirk*	**Evolution of local bubble characteristics in a pressurised pneumatic flotation cell** *Zürner, Till*	**Consistency of pseudopotential lattice Boltzmann methods in two-phase flow simulations of droplet dynamics** *Czelusniak, Luiz Eduardo*	

S12.03	**Towards the efficient simulation of large-scale soil-structure interaction problems using the scaled boundary finite element method** *Kuhn, Tobias*	**Time Domain Boundary Element Methods for the Neumann Problem: a Reduced Fformulation for Practical Applications** *Schneider , Simon*	**A domain decomposition strategy for natural imposition of mixed boundary conditions in port-Hamiltonian systems** *Brugnoli, Andrea*	**Porous wall induced instabilities in compressible boundary layers** *De Broeck, Lara*	

Wednesday, April 9

	8:30	8:50	9:10	9:30	9:50	10:10
S14.02	**Variational modelling of porosity waves** *Zafferi, Andrea*	**Energy-variational structure in evolution equations** *Lasarzik, Robert*	**On the connection of the Prandtl equations and the harmonic oscillator** *Kortum, Joshua*	**On some explicit solutions of the linearised Prandtl equations via hypergeometric functions** *De Anna, Francesco*	**On an inhomogeneous coagulation model describing sedimentation** *Cristian, Iulia*	
S15.03	**Uncertainty Quantification For Lévy Random Fields - Theory and Numerics** *Gottschalk, Hanno*	**Uncertainty Quantification For Lévy Random Fields - Theory and Numerics** *Gottschalk, Hanno*	**Laplace Transform–Based Non-Probabilistic Uncertainty Analysis of Viscoelastically Damped Structures** *Łasecka-Plura, Magdalena*	**Efficient first order second moment method for stochastic vibroacoustic problems with uncertain loads** *Hüpel, Yannik*	**Incorporating Model Form Uncertainty in Digital Twins for Reliable Parameter Updating and Quantities of Interest Analysis** *Arcones, Daniel Andrés*	
S17.03	**Regularization and stabilization of port-Hamiltonian descriptor systems via output feedback** *Mehrmann, Volker*	**On port-Hamiltonian partial differential algebraic equations** *Preuster, Till*	**Pollution free eigenvalue bounds for the Gramian operator** *Grubišić, Luka*			
S18.03	**Structure-preserving Model Reduction on Manifolds of port-Hamiltonian systems** *Glas, Silke*	**Structure-preserving Model Reduction on Manifolds of port-Hamiltonian systems** *Glas, Silke*	**Energy-preserving Arnoldi approximations for Gauss-Runge-Kutta integrators** *Maier, Stefan*	**Beyond 1D: A higher dimensional perspective on composite gas flow simulations in pipelines** *Nayak, Ashwin Sadanand*	**Convergence of a Riemannian gradient method for the Gross-Pitaevskii energy functional in a rotating frame** *Yadav, Mahima*	

Wednesday, April 9

	8:30	8:50	9:10	9:30	9:50	10:10
S19.03	**Sampling, optimization, SDEs and gradient flows** *Majka, Mateusz*	**Sampling, optimization, SDEs and gradient flows** *Majka, Mateusz*	**Spatial decay of perturbations in optimal control** *Schaller, Manuel*	**A novel distributed method for PDE-constrained GNEPs** *Sauer, Felix*	**Strategies for robust optimal control of chromatographic separation processes** *Cebulla, Dominik H.*	
S20.02	**Comparison of a-posteriori error estimators in the context of Parametric Model Order Reduction by Matrix Interpolation** *Schopper, Sebastian*	**Reduced Order Modeling for Frequency Response Functions of Nonlinear Dynamical Systems: Application to Gear Transmission Systems** *Mohamed, Hady*	**Application of operator inference to reduced-order modeling of constrained mechanical systems** *Filanova, Yevgeniya*	**Approximate Balanced Truncation for Linear Structured Systems based on Greedy Numerical Integration** *Reddig, Celine*	**System-theoretic model order reduction for data assimilation** *König, Josie*	
S21.01	**Duality in nonlinear eigenproblems** *Laubmann, Jonathan*	**Duality in nonlinear eigenproblems** *Laubmann, Jonathan*	**Adjointfree Estimation of Operator Norms Do we need the Adjoint to Estimate Operator Norms?** *Schneppe, Felix*			
S22.03	**Neural Operator-accelerated Parallel-in-Time Methods** *Götschel, Sebastian*	**A Physics-Informed Neural Network with Generalized Finite Difference method framework for solving groundwater flow** *Tsung-Han, Li*	**Autoencoders with CUR Decompositions for Physics-preserving Low-order Models in Fluid Flow** *Kim, Yongho*	**Concepts and strategies for the mathematical modelling of electroplating** *Schwöbel, Stephan Daniel*		

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S25.03	**On the performance and convergence of PINNs for problems in linear elasticity** *Kadlag, Dipraj*	**Model discovery and challenges using inelastic Constitutive Artificial Neural Networks (iCANN s) at finite strains** *Holthusen, Hagen*	**Hard-constraining techniques and architectures in physics-informed neural networks for silicidation simulations** *Straub, Christopher*	**Anisotropic hyperelasticity meets physics-augmented neural networks** *Kalina, Karl A.*	**Application of Deep Learning Methods to Simulate the Behaviour of Soft Tissue Materials in Biomechanics** *Mustafa, Agon*	
S26.01			**On-the-fly adaptive sparse grids for coupling molecular monte-carlo and continuum models** *Hülser, Tobias*	**Koopman-based Control for Stochastic Systems: Application to Enhanced Sampling** *Guo, Lei*	**Coarse-grained simulation of protein self-assembly** *Mayrhofer, Lukas*	

	10:00
Poster	**Deformation dependent conductivities in a porous electromechanical system from variationally consistent homogenization** *M. Blaszczyk, D. R. Rollin, F. Larsson, K. Runesson, R. Jänicke*
	Nonlinear interpolation inequalities with fractional Sobolev norms and pattern formation in biomembranes *J. Ginster, A. Pešić, B. Zwicknagl*
	Microstructure modeling of binder-jet 3D-printed materials *E. Donval, M. Schneider, H. Grimm-Strele, M. Godehardt, R. Burger, P. Lechner, D. Gün*
	Polyconvex constitutive modeling with physics-augmented neural networks *D. K. Klein, O. Weeger*
	Adjoint coupled plasma-neutral solvers with reversible pseudorandom number generators *E. Løvbak, G. Samaey*
	Structure-preserving methods for port-Hamiltonian flexible multibody systems *Philipp L. Kinon, Peter Betsch, Simon R. Eugster, Riccardo Morandin, Philipp Schulze*

Strong simulations for strong magnets: Effects of defects
M. Vorwerk & J. Schröder

Dynamic fracture with thin structures and bond-associated peridynamics
K. Partmann, C. Wieners, K. Weinberg

Interface conditions for Maxwell's equations by homogenization of thin inclusions: transmission, reflection or polarization
B. Schweizer, D. Wiedemann

11:00

R.v.Mises Lecture

14:00

PL 4

DPG Method on a New Road to Nonlinear Problems
Demkowicz, Leszek

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S01.03	**Energy- and constraint-preserving integration for elastically coupled multi-body systems** *Kotyczka, Paul*	**Galerkin-based approach for time integration of the rigid body in quaternion formulation** *May, Marvin*	**Practical Insights on Data-Based Robot Control: A Comparative Analysis of Data-Enabled Predictive Control and Model-Based Predictive Control** *Chen, Jingshan*			
S02.01	**A multifactorial approach for modelling vascular tone regulation: from molecular pathways through tissue response to systemic couplings** *Marino, Michele*	**Experimental and numerical characterisation of a viscoelastic material by unifying different time scales** *Ruhland, Laura*	**Multimodal mechanical characterization of spinal cord tissue** *Ramachandran, Rahul Gopalan*	**PDE Framework for Tumor Invasion and Basement Membrane Dynamics: Application to Colorectal Cancer** *Schmid, Valentin*	**A novel variational biofilm model for growth death and metabolism effects in coupled species evolution** *Klempt, Felix*	**Thickness field optimization of implants used in hernia treatment: comparison of materials with different mechanical properties** *Kalinowski, Szymon*

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S04.04	**An efficient Ritz-Method for post-buckling analysis of composite plates with bending-twisting coupling** *Dillen, Sebastian Dominik*	**A stationary predictor corrector method for the simulation of elastic-plastic bending of axially moving plates with non-material finite elements** *Ramsauer, Stefan*	**A variationally consistent membrane wrinkling model based on spectral decomposition of the strain tensor** *Kiendl, Josef*	**Approximate stability analysis of omega-stringer stiffened composite panels** *El Yaakoubi-Mesbah, Cherine*	**Deformation and Damage in Three-Layered Plates with Auxetic Core at Static and Impact Loading** *Breslavsky, Dmytro*	**Statistical evaluation of the influence of geometric and technological variables on the strength parameters of sandwich panels** *Pozorska, Jolanta*
S07.04	**Anisotropic friction models of moving macromolecules in polymeric liquids** *Zmitrowicz, Alfred*	**Modeling concepts for piezoceramics in ultrasonic motors** *Sutter, Felix*	**Variational thermomechanically coupled SMA material model and optimization of SMA based out-of-plane bistable microactuator** *Shamim, Muhammad Babar*	**Multiphase-field simulation studies on Ni thin film dewetting** *Becker, Nils*	**Simulating cycled loading of hydrogen on thin metallic structures** *Gisy, Johannes*	**A laser beam welding process and its microstructural thermoelastoplastic analysis** *Hartwig, Philipp*
S08.03	**Neural network enhanced computational polyconvexification** *Balazi, Loïc*	**Deep Eshelby Network: An AI Framework for Multiscale Mean-Field Homogenization** *Schwaighofer, Michael*	**Digital physics of 3D-printed sand cores** *Donval, Elodie*	**Model discovery in multiscale simulations for anisotropic materials** *Urrea-Quintero, Jorge-Humberto*	**Deep-Learning-Based Numerical Homogenization of Heterogeneous Media** *Kröpfl, Fabian*	**Digital process and functional design for PUR foam components based on multiscale simulations** *Staub, Sarah*

S10.04	**Influence of porous material on the flow behind a backward-facing step: experimental study** *Klotz, Lukasz*	**Influence of porous material on the flow behind a backward-facing step: experimental study** *Klotz, Lukasz*	**Gas transfer through sea surface - turbulence and surfactan** *Piskozub, Jacek*	**Analysis and parametrization of turbulence in stably-stratified atmospheric boundary layers** *Wacławczyk, Marta*	**Turbulence statistics in thunderclouds** *Sarkar, Joydeep*	**Modelling transient, compressible and subcritical vessel outflows** *Fischer, Michael-David*

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S14.03	**Magnetic skyrmions** *Simon, Theresa*	**Magnetic skyrmions** *Simon, Theresa*	**Amplitude equations for the fractional Swift-Hohenberg equation** *Throm, Sebastian*	**Stress-Modulated Growth in the Presence of Nutrients** *Blawid, Julian*	**On the Derivation of the Timoshenko Beam Model from Nonlinear Elasticity by Gamma-Convergence** *Fastovska, Tamara*	**The Schrödinger Poblem on Metric Graphs** *Krautz, Juliane*
S15.04	**Sensitivity Analysis of Bifurcation Curves** *Lux-Gottschalk, Kerstin*	**Augmented First-Order Reliability Method for Estimation of Imprecise Failure Probabilities** *Valdebenito, Marcos*	**Reliability analysis of structures with correlated random variables considering uncertain distribution parameters** *Li, Peipei; Valdebenito, Marcos A.; Faes, Matthias G.R.*	**Sensitivity Estimation of Failure Probability with Respect to Input Distribution Parameters in Stochastic Computational Models** *Zhang, Xuan-Yi*	**Optimization of shell structures with fuzzy-probability based random fields using artificial neural networks** *Schweizer, Maximilian*	**A high-performance multilevel stochastic gradient descent method with applications in optimal control under uncertainty** *Schneiderhan, David*
S16.02	**Topology optimisation of non-periodic metamaterials via beam-based modelling** *Weißinger, Philippa*	**Process modeling-based optimization of grayscale masked stereolithography 3D printed parts** *Rutsch, Felix*	**Minimization of the structural compliance over the elastic moduli with a convex unit cost leads to a nonlinear elasticity problem** *Lewiński, Tomasz*	**Topology optimization in civil engineering – on the consideration of concrete failure characteristic and self-weight** *Masarczyk, Daniela*	**Topology Optimization Methods for Buckling Structures with Size Constraints** *Xiao, Manyu*	**Lasserre hierarchy for topology optimization of frame structures under dynamic excitations** *Tyburec, Marek*

S17.04	**Towards understanding Krylov subspace methods through examples** *Liesen, Jörg*	**Spectral properties of certain nonsymmetric saddle point matrices** *Ramme, Justus*	**Spectral analysis of preconditioners for fully implicit Runge-Kutta methods** *Outrata, Michal*	**On a matrix-Newton-type framework for solving NEPv** *Werner, Tom*	**Generic eigenvalue algorithms and singular value algorithms for matrices of quaternions, reduced biquaternions, and dual numbers** *Slapničar, Ivan*	

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S18.04	**Reduced-order modeling and data assimilation with applications in structural health monitoring** *Gräßle, Carmen*	**Reduced-order modeling and data assimilation with applications in structural health monitoring** *Gräßle, Carmen*	**Model Reduction for the Wave Equation beyond the limitations of the Kolmogorov N-width** *Feuerle, Moritz*	**Fast Solution of the Wave Equation Using Model Order Reduction and the Laplace Transform** *Henriquez, Fernando*	**Temperature Stratification in Lakes: Thermobaric Effects and Stability** *Irmscher, Jonathan*	**Global Free Flight Optimization via Eikonal Approach** *Jocas, Arturas*
S19.04	**Optimal control of an ill-posed bloodflow model: Navier-Stokes with do-nothing boundary controls** *Wagner, Jakob*	**Output-based receding horizon stabilizing control for linear parabolic equations** *Rodrigues, Sergio S.*	**A machine learning based approximation of semi-concave functions with applications to optimal control** *Vasquez-Varas, Donato*	**The minimum energy estimator for a cubic wave equation** *Schröder, Jesper*	**Continuation methods for higher-order topology optimization** *Winkler, Michael*	
S20.03	**Controllability of an orbiting satellite model with electromagnetic-only actuation** *Yevgenieva, Yevgeniia*	**On the existence of periodic solutions to weakly nonlinear distributed parameter control systems** *Zuyev, Alexander*	**Approximate Control by Series Expansion with Application to the Ball and Beam System** *Gerbet, Daniel*	**Observability Test for Systems with Rational Nonlinearities** *Röbenack, Klaus*	**Comparison and analysis of event-triggered state estimation methods for nonlinear systems** *Ji, Jiaxin*	**Flatness-based observer design of Shallow Water Waves in a Tube with Moving Boundary and non-collocated measurement in Material-Fixed Coordinates** *Wurm, Jens*
S21.02	**Hyperspectral Image denoising via Low-rank Tucker decomposition with Subspace Implicit Neural Representation** *Peng, Jiangjun*	**Denoising Hyperbolic-Valued Data by Relaxed Regularizations** *Bresch, Jonas*	**Riemannian Patch Assignment Gradient Flows** *Gonzalez-Alvarado, Daniel*	**Information Geometry of Exponentiated Gradient: Convergence beyond L-Smoothness** *Elshiaty, Yara*		

Wednesday, April 9

	16:30	16:50	17:10	17:30	17:50	18:10
S22.04	**A Surface Crouzeix-Raviart Element for Geophysical Flow Problems** *Mehlmann, Carolin*	**A Surface Crouzeix-Raviart Element for Geophysical Flow Problems** *Mehlmann, Carolin*	**Efficient numerical methods for the Maxey-Riley-Gatignol equation** *Ruprecht, Daniel*	**Magneto-mechanical coupling for magnetostriction using isogeometric analysis** *Merkel, Melina*	**Isogeometric Analysis of 2D Magnetostatics with THB-Splines enriched by Bézier Extraction for Local Refinement** *Grendas, Andreas*	
S25.04	**Learning regularizers - bilevel opitimization or unrolling?** *Lorenz, Dirk*	**Time-adaptive SympNets for separable Hamiltonian systems** *Janik, Konrad*	**Sparse full-order model inference for incompressible fluid dynamics** *Yıldız, Süleyman*	**Investigation of hydrogel structure parameters in the Flory-Rehner model with data-driven approaches** *Wang, Yawen*	**Optimal data selection for learning differential equations** *Govoeyi, Medard*	**An Adaptive Random Fourier Features approach applied to learning Stochastic Differential Equations** *Kammonen, Aku*
S26.02			**Multiresolution of the free-particle propagator** *Dinvay, Evgueni*	**Second-Order Time-Splitting Hermite Spectral Method for Nonlinear Schrödinger Equations with Time-Dependent Potential** *Bergold, Paul*	**Quasivoids in polydisperse glassy systems with atomistic PEL exploration and iso-configuration method** *Swayamjyoti, S.*	**Analysis of an inexact domain decomposition method with application to the Conductor-like Screening model** *Ghosh, Nibedita*

Thursday, April 10

	8:30	8:50	9:10	9:30	9:50	10:10
MS3	**Quantifying time-series similarity using topological conjugacy and related concepts** *Signerska-Rynkowska, Justyna*	**Classifying and predicting behaviours of porous structures using Topological Data Analysis** *Bogdan, Michał*		**Topological Analysis of Dynamical Systems** *Marszewska, Marta*	**Prediction of elastic modulus for metallic porous materials using 3D convolution neural networks** *Topolnicki, Rafał*	
S02.02	**Lower limb multibody model built in Artisynth for the use of coupled multibody-finite element simulations** *Denk, Alexander*	**Drift-Free Sagittal Angle Estimation in Outdoor Running Using IMUs: Application to Shank and Foot** *Ghiassi, Mehdi*	**Finite element analysis of the human elbow joint** *Kasprzyk, Julia*	**Finite Element Modelling of Impact Loads on the Human Head** *Wang, Zechang*	**A new concept for embedding fibers in continua via level-sets** *Fries, Thomas-Peter*	**Characterization of the statistically inhomogeneous mesostructure of moso bamboo using image processing** *Speichginger, Lukas*
S03.03	**Phase-field modelling of ductile fatigue fracture** *Kalina, Martha*	**A Fracture Criterion for the Prediction of Complex Fracture Patterns and Fragmentation in Tempered Glass** *Kanan, Anas*	**Anisotropic brittle damage models at finite strains** *van der Velden, Tim*	**A Regularized Continuum Damage Model Based on Endurance Surfaces for Fatigue Prediction** *Feike, Klas*	**An analytical and numerical approach for the description of damage-free disassembly of joined CFRP structures** *Kreikemeier, Janko*	**A double surface damage model for amorphous glassy polymers** *Hamdoun, Ayoub*
S04.05	**Dimension reduction in elasticity** *Kienzler, Reinhold*	**Dimension reduction in elasticity** *Kienzler, Reinhold*	**Asymptotically exact theory of functionally graded elastic beams** *Chau Le, Khanh*	**Numerical and analytical study of elastic parameters in linearized micropolar elasticity** *Schek, Lucca*	**The catenary line: numerical aspects and solutions for special boundary conditions.** *Beitelschmidt, Michael*	**Development of space-fractional finite element for scale-sensitive truss structures** *Stempin, Paulina*

S05.01	**Dynamics of Two Coupled Bodies on a Rough Horizontal Plane with Variable Coefficient of Friction** *Prokopenya, Alexander*	**Pure Mobility: Rolling resistance in future vehicle-road systems** *Ruff, David*	**Secular Perturbations of the Orbital Elements in the Maby-Body System with Variable Masses** *Saparova, Moldir*	**Frequency analysis of a Superconducting Magnetic Bearing system in ring spinning using an Eddy Current Damper** *Delgado, Yves Jesus Perez*	**Peculiarities of Amplitude-Frequency Characteristics in Geometrically Nonlinear Vibrations of Composite Shells and Plates under Various Deformation Models** *Goriachko, Taras, Marchuk, Mykhailo*	**On the Influence of Cracks on the Dynamic Behavior of PICMA® Multilayer Actuators** *Riedel, Simon*

Thursday, April 10

	8:30	8:50	9:10	9:30	9:50	10:10
S06.2.01	**Thermodynamically regularized computation of strain-induced crystallization** *Jabareen, Mahmood*	**Exploring the effects of thermal aging on filled and unfilled natural rubber compounds with a perspective of SIC modelling** *Farkas, Ondrej*	**Data-driven modeling of strain-induced crystallization based on physics-augmented neural networks** *Friedrichs, Konrad*	**Efficiency enhancement strategies on the concept of representative directions applied to the dynamic flocculation model for filled elastomers** *Niemeyer, Mascha*	**The Self-Heating of Rubber Elements in Vibration Absorber Systems** *Niksirat, Esmat*	**Comparative Analysis of Homogenization Techniques for Interphase Modeling in Elastomer Blends** *Ulrich, Marc*
S07.05	**Porous media approach for multi-physics modeling of Nafion membrane in water electrolysis** *Aldakheel, Fadi*	**Porous media approach for multi-physics modeling of Nafion membrane in water electrolysis** *Aldakheel, Fadi*	**Multi-scale modeling of electro-chemo-mechanical interactions in battery electrode composites** *Jänicke, Ralf*	**A phase-field model for the anodic dissolution process during electrochemical machining** *Schmidt, Annika*	**A thermodynamically consistent phase field model for organic solar cell production** *Tretmans, Carmen*	
S08.04	**Microstructure-Property Relationships in Solid Oxide Fuel Cell Electrodes** *Langner, Eric*	**A Homogenization Approach for Modeling Ion Transport in Solid Oxide Fuel Cells** *Puderbach, Janna*	**FExMS - Coupling Finite Elements with Molecular Statics by Homogenization** *Neelakandan, Aagashram*	**Multiscale modeling of lamellar materials accounting for size effects** *Klein, Claudius*	**The influence of microstructure model parameters on the prediction of effective elastic properties of cement paste** *Burczyński, Tadeusz*	**FE^2 method to model rod- and beam-like carbon-based nanostructures** *Ochs, Julian*
S10.05	**The Influence of Hydrocarbon Additives on Laminar Burning Velocity and NOx Emissions in Hydrogen Combustion** *Hemaizia, Abdelkader*	**Towards the use of HiPS as scalar mixing model in a full engine cycle simulation** *Starick, Tommy*	**Effect of swirl flame shaping on emissions in CH4-NH3 co-firing - experimental and numerical study** *Ślefarski, Rafał*			

Thursday, April 10

	8:30	8:50	9:10	9:30	9:50	10:10
S14.04	**Localisation Limits and Degenerate Cross-Diffusion Systems** *Schmidtchen, Markus*	**Advection and enhanced diffusion in some active scalar problems** *Kalinin, Konstantin*	**Discrete-to-continuum limit for reaction-diffusion systems via variational convergence of gradient systems** *Heinze, Georg*	**On time-splitting methods for gradient flows with two dissipation mechanisms** *Stephan, Artur*	**On asymptotically self-similar behavior in reaction-diffusion systems** *Schindler, Stefanie*	**Conditional Exponential Equilibration of Electro-Energy-Reaction-Diffusion Systems** *Kniely, Michael*
S15.05	**Bayesian shape inversion in time-harmonic scattering** *Scarabosio, Laura*	**Bayesian shape inversion in time-harmonic scattering** *Scarabosio, Laura*	**Sequential Quasi-Monte-Carlo Sampling for Bayesian Inference of Chemical Kinetic Models Utilizing Normalizing Flows** *Panagiotopoulos, Andreas*	**Comparison of mono-level and bi-level approaches for surrogate-based robust optimization** *Schultz, Julius*	**Infinite Dimensional Bayesian Inversion for Semiconductor Devices** *Taghizadeh, Leila*	**Exploring Imprecise Probabilities in Quantum Algorithms with Possibility Theory** *Schneider, Jan*
S16.03	**Convexification can help optimization, at least sometimes** *Wirth, Benedikt*	**Convexification can help optimization, at least sometimes** *Wirth, Benedikt*	**Abs-Smooth Frank-Wolfe Method: Convergence Analysis and Implementation** *Tadinada, Sri Harshitha*	**Addressing Risk Aversion in Energy Market Models: A Non-Smooth Optimization Approach** *Schmidt, Adrian*	**How Stringent is the Linear Independence Kink Qualification in Abs-Smooth Optimization?** *Bethke, Franz*	**A robust optimization method for functions with discontinuities along lower-dimensional manifolds** *Igel, Lennart*
S18.05	**A posteriori error bounds without generic constants by the two-energies-principle** *Braess, Dietrich*	**Goal-oriented dual-weighted error estimation for first order Virtual Elements** *Sellmann, Christian*	**Error representations for goal-oriented a posteriori error estimation in elasto-plasticity with applications to mesh adaptivity** *Mahnken, Rolf*	**Quantum Realization of the Finite Element Method** *Deiml, Matthias*	**Minimal residual discretization of a class of fully nonlinear elliptic PDE** *Tien Tran, Ngoc*	**Sparse low-rank approximation of multi-parametric partial differential equations** *Yang, Huqing*

Thursday, April 10

	8:30	8:50	9:10	9:30	9:50	10:10
S19.05	**Numerical Methods and Optimality Conditions for PDE Constrained Optimal Control Problems with Control Variables Appearing Linearly** *Vossen, Georg*	**Newton's method for nonlinear mappings into vector bundles** *Weigl, Laura*	**Decomposition methods for mixed-integer optimal control using Pontryagin's principle** *Hante, Falk*	**Finite Element Error Analysis of the Beckmann Problem of Optimal Transport** *Eidecker, Niklas*	**Optimal control of rate-independent systems with non-convex energy** *Andreia, Merlin*	
S20.04	**Improving Policy Iteration: A Koopman-Based Riccati Analogue for Nonlinear Control Systems** *Höveler, Bernhard*	**Exploring the Links between the Fundamental Lemma and Kernel Regression** *Molodchyk, Oleksii*	**Exponential trim turnpike property for optimal control systems with symmetries** *Wembe, Boris*	**Optimal control for a class of linear transport dominated systems via the shifted proper orthogonal decomposition** *Burela, Shubhaditya*	**New Lagrangian framework for optimality conditions in second order optimal control problems** *Maslovskaya, Sofya*	**New discrete Lagrangian approach for solving mechanical optimal control problems** *Konopik, Michael*
S21.03	**Variational exit wave reconstruction - From classical approaches to deep unfolding** *Berkels, Benjamin*	**Variational exit wave reconstruction - From classical approaches to deep unfolding** *Berkels, Benjamin*	**Towards a super-resolution theory for infinite-width shallow neural networks** *Carioni, Marcello*	**Pattern-Generating Reaction-Diffusion Systems for Texture Processing: Towards Generative Texture Descriptors** *Welk, Martin*	**Bundle Scale Spaces and Local Gauge Symmetries for Graph Networks** *Cassel, Jonas*	**Multilevel Optimization: Geometric Coarse Models and Convergence Analysis** *Vanmaele, Ferdinand-Joseph*
S22.05	**Algorithmic Differentiation for Second-Order Derivatives of Fixed-Point Iterations with ADOL-C** *Siebert, Tim*	**MaRDI Open Interfaces for Scientific Computing** *Kabanov, Dmitry I.*	**Efficient Implementation of a semi-smooth Newton method for parabolic PDE-constraint optimization** *Reinhold, Alexander*	**Automatic code generation for efficient matrix-free non-linear solvers with application to solid mechanics** *Wichrowski, Michał*	**IFDIFF - A Matlab Toolkit for ODEs with Filippov-type and State-Dependent Switches** *Sommer, Andreas*	**Spectral gaps for Laplacians of symplectic groups** *Mizerka, Piotr*

	8:30	8:50	9:10	9:30	9:50	10:10
S25.05	**A spatiotemporal deep learning framework for prediction of crack dynamics in heterogeneous solids: efficient mapping of concrete microstructures to its fracture properties** *Najafi, Rasoul*	**A baseline study on the potential of combining Machine Learning and dynamic substructuring** *Hayn, Annika*	**Physics-Informed Recurrent Neural Networks for Predicting Elasto-Plastic Be- havior in Hierarchical Finite Element Modeling** *Dyckhoff, Lena*	**Denoising Diffusion Model with Pixel Adaptive Convolutions for Sheet Metal Forming Analysis** *Ali, Syed Sarim*	**Hybrid modeling via machine learning corrections of friction surfacing process simulations towards experimental measurements** *Klusemann, Benjamin*	**Hybrid finite element/neural network solver** *Kapustsin, Uladzislau*
S26.03	**Wigner crystallization** *Friesecke, Gero*	**Wigner crystallization** *Friesecke, Gero*	**A mathematical analysis of IPT-DMFT** *Perrin-Roussel, Solal*	**Certified Model Order Reduction for parametric Hermitian eigenproblems** *Zeng, Zhuoyao*	**Riemannian Optimisation Methods for Ground States of Multicomponent Bose-Einstein Condensates** *Hermann, Martin*	**An Energy-Adaptive Riemannian Conjugate Gradient Method for Eigenvector Problems of Kohn–Sham Type** *Püschel, Jonas*
S27.01	**Room for Improvement – A Blended Learning Concept with Teachers as Tutors and a Digital Exercise Type for Mechanical Equations** *Sattler, Moritz*	**Room for Improvement – A Blended Learning Concept with Teachers as Tutors and a Digital Exercise Type for Mechanical Equations** *Sattler, Moritz*	**Addressing Common Learning Obstacles in Mechanics through Automated STACK Assignments: An Experience Report** *Zwiers, Ulrich*	**A concept for STACK-based individual electronic assignments in third semester engineering mechanics** *Strackeljan, Cornelius*	**Digital tutorials and examination tools for Structural Analysis – a case study** *Birk, Carolin*	**“Digital Engineering Mechanics” – implementation, opportunities and challenges** *Lammen, Henning*

	11:00
PL 5	**Resonances as a computational tool** *Schratz, Katharina*

	12:00
PL 6	**On Nonlinear Oscillations** *von Wagner, Utz*

	14:00	14:20	14:40	15:00	15:20	15:40
S03.04	**Predicting fatigue lifetime of high-strength concrete using physics-informed neural networks** *Baktheer, Abedul-gader*	**Autoencoder based non-intrusive model reduction of damage simula-tions** *Brepols, Tim*	**A "Capriccio light" approach to study the capabilities of multiscale frac-ture simulations of thermoplastics** *Richter, Eva Maria*	**Predictability of fracture mechan-ical quantities based on chem-ically specific multiscale simula-tions** *Pfaller, Sebastian*		
S04.06	**Experimental in-vestigations on mechanics based additively manufac-tured stayed lattice structures** *Ou, Yating*	**Modeling the Influ-ence of Tempera-ture for Extrusion-Based 3D Concrete Printing – from Ma-terial to Structural Stability** *Robens-Radermacher, Annika*	**Numerical Inves-tigation of Laser Path on Residual Stresses in the Laser Powder Bed Fusion Process** *Puthoor, Alfred Jose*	**Structural detailing of material extru-sion additively manufactured 2D metamaterials with rigid inclusions** *Dönitz, Antonia*	**Numerical mod-elling of thin-walled plate-based lat-tices and TPMS structures for lightweight engi-neering applica-tions** *Milenkovski, Nikola*	**Numerical Mod-elling of Additive Manufacturing in Construction** *Hürkamp, André*

S04.07	**Advancing the Simulation of Non-Linear Elastodynamics with Lattice Boltzmann Methods** *Müller, Henning*	**Reduced integration-based stabilization for virtual elements** *Pacolli, Njomza*	**A comparative study of polygonal element formulations for linear elasticity** *Pasupuleti, Ajay Kumar*	**Comparison of Particle finite element method and Finite element method for nonlinear material behaviour in simple test cases** *Kadam, Paras*	**Reissner-Mindlin plate theory by the equilibrium-based FEM** *Świątkiewicz, Paulina*	**Estimation of Discrete Model Parameters for Float Glass Panels Using the Rigid Finite Element Method** *Abramowicz, Małgorzata*
S05.02	**A new paradigm for multi-fidelity continuation using parallel model refinement** *Gross, Johann*	**A new paradigm for multi-fidelity continuation using parallel model refinement** *Gross, Johann*	**Forced response analysis of dynamic systems with inertia nonlinearity by applying the Multi-Harmonic-Balance Method** *Tatzko, Sebastian*	**Integration of Base Excitation with non-linear Coupling within the Multiharmonic Balance Method** *Kubatschek, Tido*	**Stability analysis using predictor-corrector continuation to develop Ince-Strutt diagrams for a nonlinear parametric oscillator** *Jonkeren, Mirco*	**A MATLAB Toolbox for the continuation of stationary solution branches** *Vogelei, Julian*

	14:00	14:20	14:40	15:00	15:20	15:40
S06.2.02	**Modeling rate-dependent damage effects in soft biological tissue** *P. Wollner, Maximilian*	**Relaxation Effects in Thermo-Visco-Elastic Materials** *Hille, Frederik*	**Viscoplastic modeling of shotcrete 3D printing** *Tuan La, Quoc*	**Modeling of the Visco-Plastic Compaction Behavior of Crushed Salt Based on Micromechanical Deformation Mechanisms** *Gartzke, Ann-Kathrin*	**Modelling Material Behavior and Quantifying Recovery Strain in 4D Printed Shape Memory Polymers** *Hembrock, Henrik*	**Aspects of a multiplicative viscoelastic material model for ice** *Koßler, Marvin*
S07.06	**Implementation of a thermomechanical model for journal bearings using p-FEM** *Schmidtchen, Fabian*	**Physics-based modeling of a counter-flow heat exchanger with application to control model development** *Klein, Marten*	**Thermal Analysis of Heat Sink with Different Channel Geometries** *Iticha, Welteji*			
S08.05	**Towards a digital twin for pavements: A viscoplastic enhancement of the Microlayer framework for asphalt modeling** *May, Marcel*	**Inverse design of architected materials: spinodoids vs TPMS** *Otto, Alexandra*	**Variable Scale Separations in Homogenization of Phase Transforming Materials** *von Oertzen, Vincent*	**Development and Implementation of a New Algorithm for Periodic Boundary Conditions in 3D RVE Models** *Sadeghpour, Reza*	**Experiments on the energy absorption of open cellular structures under static and dynamic loading** *Weinberg, Kerstin*	**Generating microstructures for long fiber reinforced composites with fiber curvature control** *Lauff, Celine*
S09.01	**Numerical assessment of changes in blood flow hemodynamics after varied virtual endovascular procedures of treating the cerebral aneurysms** *Tyfa, Zbigniew*	**Numerical assessment of changes in blood flow hemodynamics after varied virtual endovascular procedures of treating the cerebral aneurysms** *Tyfa, Zbigniew*	**FSI simulation represents a novel and efficacious approach for evaluating the management of giant intracranial aneurysms** *Reorowicz, Piotr*	**Possible predictors of cerebrovascular accidents in paediatric patients with PHACES syndrome: in-silico investigations** *Obidowski, Damian*	**Numerical Investigation of the Effect of Flow Vorticity on Red Blood Cell Orientation and Deformation** *Dirkes, Nico*	**Noninvasive assessment of artery wall stiffness** *Białecki, Ryszard Andrzej*

Thursday, April 10

	14:00	14:20	14:40	15:00	15:20	15:40
S14.05	**On a non-isothermal Allen-Cahn model for tumor growth** *Ipocoana, Erica*	**Viscoelastic Phase Separation: Well-posedness and Singular Limit to Viscous Cahn–Hilliard Equation** *Gau, Moritz*	**Analysis of a Cahn-Hilliard model for viscoelastoplastic two phase flows in geodynamics** *Cheng, Fan*	**Sharp Interface Reduction of a Mesoscale Model for Two-Species Surfactant Films** *Fuchs, Jakob*	**A fully coupled Stokes-transport system modeling thermoregulation in human skin** *Hacker, Kilian*	**Γ-Convergence and Stochastic Homogenization of Second-Order Singular Perturbation Models for Phase Transitions** *Donnarumma, Antonio Flavio*
S16.04	**Minimum compliance design of grillages via optimal transportation methods** *Bołbotowski, Karol*	**Minimum compliance design of grillages via optimal transportation methods** *Bołbotowski, Karol*	**Optimization of fold-patterns on elastic thin plates** *Smoch, Christoph*	**Coordinated optimization of actuation and component structures in lightweight dynamic arm-like systems** *Janzik, Felix; Uttich, Eike*	**Optimal simulation parameters for modeling phase transformations in steels** *Potorski, Paweł*	**Minimization of non-linear least squares inverse problems via global linearization** *Itner, Dominik*
S18.06	**Optimal Order Pressure Trajectory Approximation for Stokes Systems: Set of Pressure Solutions and its Post-Processing** *Bause, Markus*	**Stabilized finite elements for incompressible Navier-Stokes flows on manifolds** *Kaiser, Michael Wolfgang*	**Mixed finite element for the Stokes eigenvalue problem** *Dagli, Tugay*	**A positivity preserving scheme for a coupled Chemotaxis–(Navier–)Stokes system** *Pervolianakis, Christos*	**Goal-Oriented Adaptivity Techniques for Convection-Dominated Transport and Flow Problems** *Bruchhäuser, Marius Paul*	**Analysis and numerics of nonlinear PDE systems in porous media flow models** *Boisserée, Simon*
S20.05	**Exponential splittings in the presence of unbounded operators** *Kropielnicka, Karolina*	**Exponential splittings in the presence of unbounded operators** *Kropielnicka, Karolina*	**Extremum seeking algorithms with time-varying gains** *Grushkovska, Victoria*	**Simultaneous Inversion for Underactuated Mechanical Systems with Servo-Constraints** *Wang, Tengman*	**An averaging approach for the optimal design of stand-alone minigrids** *Kliche, Nina*	**Rational Approximation of Transfer Functions with Automated Detection of Relative Degrees** *Heiland, Jan*

Thursday, April 10

	14:00	14:20	14:40	15:00	15:20	15:40
21.04	**Covariance Matrix Estimation for Massive MIMO** *Paul, Laura*	**Time-Harmonic Optical Flow with Applications in Elastography** *Melnyk, Oleh*	**Reconstructing Missing Fourier Data in MRI: Exploring GRAPPA and Subsampling Strategies in the Fourier Domain** *Riahi, Anahita*	**Automated Adjustment of the Focussing Optics of Free-electron Lasers** *Schmidt, Janina*	**Adaptive Bregman–Kaczmarz: an approach to solve linear inverse problems with independent noise exactly** *Tondji, Lionel*	**Density estimation for broken random samples** *Bi, Hancheng*
S22.06	**NURBS fitting method for smoothed surface approximation in polymer additive manufacturing** *Timmann, Frederic*	**Higher-Order Projection Methods for Variable Viscosity Fluids** *Schussnig, Richard*	**Transient numerical investigation of fluid flow with the Fast Boundary-Domain Integral Method** *Tibaut, Jan*	**Smoothed aggregation algebraic multigrid for problems with heterogeneous and anisotropic material behavior** *Firmbach, Max*	**A Hybrid Ice Model** *Kahl, Saskia*	**Matrix-free inexact preconditioning techniques for discretizations on structured grids** *Mika, Michał*
S25.06	**Machine Learning and Stochastic 3D Modeling for Reconstructing 3D Grain Maps from 2D EBSD Data** *Furat, Orkun*	**Comparison of classical ANN architecture and neural operator approach to approximate 2-point probability functions** *Schmollack, Luzie*	**Data-efficient inverse design of elastic spinodoid metamaterials** *Rosenkranz, Max*	**A Variational Autoencoder Approach to Structure-Property Mapping in Porous Metamaterials** *Heider, Yousef*	**A holistic AI approach from model creation to model evaluation in engineering applications** *Drieschner, Martin*	**Inverse Material Design using Deep Reinforcement Learning and Homogenization** *Würz, Valentin*
S27.02	**GAMEchanics: the open-source Mechanics-themed physical and virtual Escape Room** *Völlmecke, Christina*	**GAMEchanics: the open-source Mechanics-themed physical and virtual Escape Room** *Völlmecke, Christina*	**Enhancing Chemical Engineering Education: Constructive Alignment and Augmented Reality in Experimental Fluid Mechanics** *Kaufhold, Nils*	**On possibilities and challenges of GPT-assisted learning environments** *Harnisch, Marius*	**Innovative Fluid Mechanics Education through Augmented Reality and Interactive Learning** *Behr, Alexander S.*	**Programming-enhanced mechanics - an innovative teaching approach for AI Engineering Education** *Westphal, Hanna*

Thursday, April 10

	16:30	16:50	17:10	17:30	17:50	18:10
S03.05	**A Mixed Three-Field Variational Formulation for Phase-Field Fracture Modeling of Elastomer Materials** *Noii, Nima*	**Configurational forces for mixed-mode crack loading and growth analysis with the virtual element method** *Schmitz, Kevin*	**Analysis of dynamically loaded cracks with the virtual element method** *Wappler, Philipp*	**Determination of the Effective Crack Resistance in Porous Materials Using a Fracture Phase-Field Model** *Schlüter, Alexander*	**A Stochastic Phase-Field Approach for Ductile-Like Fracture of Rubber-Like Materials** *Tanış, Bülent Efe*	**Mechanical Behavior and Damage Evolution in Additively Manufactured Spinodoid** *Sreenivasa, Vishal*
S04.08	**Geometrically exact planar beam dynamics: Port-Hamiltonian modeling and structure-preserving discretization** *L. Kinon, Philipp*	**A novel approach for mass lumping leveraging the spectral decomposition theorem** *Bäthge, Fabian*	**The Petrov-Galerkin Finite Element Method in the Context of Elastodynamic Problems** *Zähringer, Felix*	**Determining Shock Responses with Experimental Impulse-Based Substructuring** *Zobel, Oliver Maximilian*	**Comparison of the dynamics of a scaled trailer model and its real-size counterpart** *Volltrauer, Jan*	**Filtering and Regularization techniques to mitigate noise in experimental Frequency Based Substructuring and Transfer Path Analysis** *Trainotti, Francesco*
S04.09	**Application of the Finite Difference Method (FDM) in bending, dynamic and stability calculations of variable cross-section beams** *Rakowski, Jerzy*	**Analysis of rotational restraint for cross-beams of deck twin girder steel bridges** *Siekierski, Wojciech*	**Modelling of Failure Mechanisms of CFS Members Restrained with bonded CFRP Textile** *Rzeszut, Katarzyna*	**Technical fabrics mechanical properties change as a reason of textile roofs failures** *Kłosowski, Paweł*		
S05.03	**Multi-Stable Systems: Nonlinear Dynamics and Energy Harvesting** *Warmiński, Jerzy*	**Multi-Stable Systems: Nonlinear Dynamics and Energy Harvesting** *Warmiński, Jerzy*	**Slow-fast oscillations of an elastic double pendulum** *Steindl, Alois*	**Optimal l^p-Norm for Robust Integrity Measures of Safe Basins in High-Dimensional Systems** *Novelli, Nico*	**Mechanism of self excitation of silos for particles** *Kröger, Matthias*	**Investigations on Sensitivity of AFM Cantilevers Using Parametric Resonance** *Ehrmann, Jonathan*

Thursday, April 10

	16:30	16:50	17:10	17:30	17:50	18:10
S06.2.03	**Neural networks meet hyperelasticity: On benefits and limits of polyconvexity** *K. Klein, Dominik*	**Data-driven statistical learning of polymeric data** *Chau, Vu M.*	**Data-driven statistical learning of textile reinforcements** *Ngoc Khiêm, Vu*	**A Data-Driven Constitutive Model for Compressible Polymers** *Dal, Hüsnü*	**Parameter identification of a cold-box sand with a micromorphic continuum** *Börger, Alexander*	
S08.06	**Continuum Modeling of Dislocation Microstructures under Contact Mechanics** *Lee, Sing-Huei*	**Empirically Corrected Cluster Cubature for Reduced Order Models** *Goldbeck, Hauke*	**A generic software framework for adaptively solving two-scale coupled problems** *Desai, Ishaan*	**Upscaling Paper Microstructures: A Statistical Approach Utilizing Mechanical and Image Data** *Neumann, Johannes*	**Quantifying the error of non-representative volume elements in stochastic homogenization of elastic composites** *Ravichandran, Shreyas Karthik*	**Identification of material parameters in the relaxed micromorphic model** *Jahnke, Alexander*
S09.02	**Mass transport of a two phase flow through a converging gap with one moving wall** *Graf, Matthias*	**Unveiling the Edge: Streamwise Localized Solutions and the Nature of Turbulence in Square-Duct Flow** *Gepner, Stanislaw*	**Experimental validation of a CFD model of blood flow in a myocardial bridge** *Melka, Bartlomiej*	**Numerical investigation of nanofluid heat transfer and fluid flow in a microchannel with an elastic baffle** *Bouzennada, Tarek*		
S13.01	**Turbulent drag reduction: what we do know, and what we don't** *Gatti, Davide*	**Turbulent drag reduction: what we do know, and what we don't** *Gatti, Davide*	**Spanwise wall oscillations without walls: a means to assess the physics of drag reduction** *Vieths, Karl*	**Reinforcement learning for the identification of an active separation control strategy of a fully-turbulent wind tunnel flow** *Steinfurth, Ben*	**Turbulent separation control on an airfoil-type surface using spanwise corrugation** *Kaminski, Piotr*	**Thermo-electro Hydrodynamic Instability in Microgravity Conditions: Experimental Investigations** *Sliavin, Yaraslau*

	16:30	16:50	17:10	17:30	17:50	18:10
S14.06	**Polarization filter as a homogenisation limit for Maxwell's equations** *Wiedemann, David*	**Time-harmonic Maxwell's equations in half-waveguides** *Schubert, Tim*	**Boundary-field formulation for transient electromagnetic scattering by dielectric scatterers and coated conductors** *Wendland, Wolfgang*	**Existence and Uniqueness of Fractional Integro-Differential Equations with Singular Kernel** *Verma, Pratibha*	**Global Solver based on the Sperner-Lemma and Mazurkewicz-Knaster-Kuratowski-Lemma based proof of the Brouwer Fixed-Point theorem** *Moshagen, Thilo*	**On regularity for systems of elliptic equations with mixed boundary conditions** *Tsopanopoulos, Michael*
S16.05	**Topologie optimization under chance constraints** *Uihlein, Andrian*	**DC-Reformulation for Gradient-L^0-Constrained Problems in Function Spaces** *Herberg, Evelyn*	**A numerical method for solving the generalized tangent vector** *Zhou, Yizhou*	**A least-squares space-time approach for parabolic equations** *Kahle, Christian*	**Phase-Field Structural Optimization of Elasto-Plastic Contact Structures** *Myśliński, Andrzej*	**Neural network function approximation for solving parametric optimization problem via optimality condition penalties** *Hoffmann, Matthias; Flaßkamp, Kathrin*
S18.07	**Accelerating exponential integrators** *Ostermann, .Alexander*	**Semi-explizit Discretization of Thermo-poroelasticity** *Schmeck, Jochewed*	**A rigorous (validated) method for numerically solving systems of Delay Differential Equations** *Szczelina, Robert*			
S20.06	**Safeguarded Hybrid Reinforcement Learning for Driving on a Racetrack** *Gottschalk, Simon*	**Reducing Communication in Distributed Predictive Control: A Case Study from Mobile Robotics** *Ebel, Henrik*				

Thursday, April 10

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S22.07	**Meshless Numerical Approach to Forced Convection Problems with Optimized Port Configuration** *Chu, Chiung-Lin; Fan, Chia-Ming*	**Method of Fundamental Solutions with Domain-Decomposition Method and the Particle Swarm Optimization for Solving the Degenerate Boundary Problems** *Lam, Tan Phat*	**Numerical solutions of boundary detection problems by using the method of fundamental solution and the particle swarm optimization** *Fan, Chia-Ming*	**Optimization of the exhaust unit geometry to minimize Ex-zone dimensions** *Kaufhold, Nils*		
S25.07	**Neural networks for isotropic polyconvex hyperelastic energies, Part 1: Analysis of existing approaches and improved networks** *Mosler, Jörn*	**Neural networks for isotropic polyconvex hyperelastic energies, Part 2: A convex neural network framework with universal approximation capability** *Geuken, Gian-Luca*	**Multiscale Modelling through Physics-constrained Voigt-Reuss networks** *Keshav, Sanath*	**Data-efficient inverse design of elastic spinodoid metamaterials** *Rosenkranz, Max*	**VENI, VINDy, VICI: A Generative Approach to Reduced-Order Modeling with Embedded Uncertainty Quantification** *Kneifl, Jonas*	**Certification of physics-informed neural networks for the solution of partial differential equations** *Ernst, Lewin*
S27.03	**Mechanics in teaching - theoretically sound basis and application-oriented fascination for engineering studen** *Kuhl, Detlef*	**Mechanics in teaching - theoretically sound basis and application-oriented fascination for engineering studen** *Kuhl, Detlef*	**Didactic comments on some of the most fundamental mathematical concepts used in teaching university-level mathematics courses** *Gunesch, Roland*	**How to activate and engage students in the basic mechanics lecture. – A case study** *Simon, Jaan-Willem*	**Self-Assessment to improve mechanical design understanding** *Roth, Timo*	

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S03.06	**A gradient-enhanced JH2 model for dynamic simulations of concrete structures** *Rosenbusch, Sjard Mathis*	**Numerical Model of Crack Propagation in Elasto-Plastic Material Using Griffith and Cohesive Zone Models** *Rusin, Jarosław*	**Proposing a Linear Failure Index for the Christensen Criterion for Use in Finite Element Analyses** *Hach, Mathis*	**Simulation study of direct-shear test on FRP-to-concrete bonded joints** *Jankowiak, Iwona*	**Numerical Method for Determining Material Stability Loss During Large Deformation** *Jackiewicz, Jacek*	**Wavelet-based random finite element analysis of dynamically loaded steel girders** *Knitter-Piątkowska, Anna*
S04.10	**From local interactions to global dynamics: a network-based view on structural vibrations** *Geier, Charlotte*	**Graph-Based Truss Modeling of Corrugated Boards for Stress Analysis During Compression** *Fitas, Ricardo*	**Structural Optimization of Endoprosthetic Structures: Fatigue and Crack Propagation Testing for AI-Driven Design of Diatom-Based Lightweight Materials** *Eisenträger, Johanna*	**A Convolutional Autoencoder Approach to Predict Shear Angle Deformations During Forming of Fiber-Reinforced Thermoplastics** *Middelhoff, Jan*	**Automatic Model Identification and Calibration of Hyperelastic Materials based on Digital Image Correlation and Bayessian Regression** *Nguyen, Duc Hoang*	**Remarks on stochastic analysis of space-fractional truss model** *Jabbar, Noman*
S04.11	**How can the master-slave elimination for multi-point constraints be drastically accelerated?** *Boungard, Jonas*	**Cantilever with electromagnetic actuator for time-periodic modal energy transfer** *Gorbach, Tobias*	**Using Transfer Path Analysis for Condition Monitoring of Magnetic Bearings** *Kreutz, Michael*	**Real-Time Hybrid Substructuring for Testing Lower Limb Prostheses** *Kist, Arian*	**Equilibration-based a-posteriori error estimates for solid mechnics** *Brodbeck, Maximilian*	**Building Digital Twins for Engineering Applications (Material testing)** *Budihala, Gajendra Babu*

S05.04	**Inverse Problems for Weakly Nonlinear Boundary-Value Problems with Delay** *Chuiko, Sergey*	**Nonlinear Periodic Boundary Value Problems with Switching at Non-Fixed Points in Time** *Nesmelova, Olga*	**Consideration of non-linear oscillations under uncertainties in the context of the electrical activity of pancreatic β-cells** *Clasen, Paula*	**An Analysis of Linear and Nonlinear Flexural Vibration of Bimodular Tapered Beams** *El Chabaan, Galeb*	

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S06.2.04	**Improved modelling of the microstructure around through-thickness reinforcements in composite laminates** *Radtke, Albrecht*	**Investigation of Solution Accuracy in PFEM Simulations Using (Semi-)Analytical Benchmark Problems** *Bettmann, Antaeus*	**Numerical modeling of soft interpenetrating composites with tunable anisotropy** *Mrozek-Czajkowska, Agata*	**A material model accounting for elasto-plasticity at finite deformations for paper and paperboard** *Ochoa Ontiveros, Lilian Aurora*	**Aspects of a multiplicative viscoelastic material model for ice** *Koßler, Marvin*	**Phase field simulation of precipitation hardened ferroelectric material** *Bohnen, Matthias*
S13.02	**Control effectiveness of vortex generators in high-speed flows in off-design conditions** *Schreyer, Anne-Marie*	**Control effectiveness of vortex generators in high-speed flows in off-design conditions** *Schreyer, Anne-Marie*	**Aeroacoustic Effects of Rod Vortex Generators for the Reduction of Boundary Layer Separation** *Suresh, Thanushree*	**Silent conditions testing of pulsed jet actuator for separation flow control over large aerodynamic surface** *Stryczniewicz, Wit*	**Performance Enhancement of Small-Scale Wind Turbine using Response Surface Optimization Method** *Laouar, Roudouane*	**Improving Small HAWT Rotor Performance through the Integration of MOGA and Screening Methods** *Bekkai, Riyadh*
S14.07	**On the passage from nonlinear to linearized viscoelastodynamics** *Kampschulte, Malte*	**Positive temperature in nonlinear thermoviscoelasticity and the derivation of linearized models** *Machill, Lennart*	**Legendre-Hadamard conditions in the nonlinear theory of fiber-reinforced elastic solids and shells** *Birsan, Mircea*	**Balanced viscosity solutions for rate-independent systems with state-dependent dissipation and applications in non-associated plasticity** *Boddin, Samira*	**Linearization of quasistatic evolution in fracture** *Friedrich, Manuel*	**Characterizing BV- and BD-ellipticity for a class of positively 1-homogeneous surface energy densities** *Engl, Dominik*
S16.06	**Solving Security-Constrained Optimal Power Flow with Benders Decomposition** *Hess, Martin*	**Recent advances in real-time optimal power flow of electric distribution networks** *Chen, Shuo*	**Stochastic Optimal Control of Heating Networks under Demand Uncertainty** *Heidrich, Johanna*	**Predictive Building Energy Management by Means of Mixed-Integer Optimal Control with Automated Setup** *Burda, Artyom*	**Minimizing the maximum cutting temperature of a milling process** *Kalu-Uka, Abraham*	**Efficient Local Optimization of Optical Design Tasks** *Seger, Tobias*

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S18.08	**Parameter-robust unfitted finite element methods for a Maxwell interface problem** *Haubold, Tim*	**A comparative study of H(curl) and Lagrange based interpolations for the magnetic field** *Vorwerk, Maximilian*	**Solar Collectors: Radiation Estimation and Convective Heat Loss Analysis** *Mekahlia, Alaeddine*	**On the accuracy of the boundary element method for problems with discontinuous geometries** *Rajski, Michal Pawel*	**A methodology for calculating rotor-stator flows based on finite volume mesh-tying** *Karimian, Kian*	**Numerical methods for nonlocal and nonlinear parabolic equations with applications** *Płociniczak, Łukasz*
S20.07	**Modeling of ambient temperature influence on dynamic characteristics of viscoelastic layered plates** *Litewka, Przemysław*	**Application of the Complex Harmonic Balance Method to determine parameters of a nonlinear fractional Zener model** *Pawlak, Zdzisław*	**Application of the contour integral method to determine of the dynamic characteristics of structures equipped with viscoelastic dampers** *Lewandowski, Roman*	**The use of viscoelastic layers to retrofit the dynamic resistance of reinforced concrete frames** *Yavas, Civan*	**Towards Advancing Energy Efficiency in Subway Systems through Port-Hamiltonian Formulation** *Hinsen, Dorothea*	**Stability of hybrid systems of variable dimension** *Schulte, Marvin*
S25.08	**Convergence and Implicit Bias: Analyzing Diagonal Linear Networks with Gradient Descent** *Bartolomaeus, Wiebke*	**A multilevel proximal trust-region method for nonsmooth optimization with applications to scientific machine learning** *Wang, Qi*	**Challenges and opportunities of the German Transplant Register using computer models and artificial intelligence** *Schnurpel, Anton*	**Convergence of gradient based training for linear Graph Neural Networks** *Patel, Dhiraj*	**Autoregressive and Generative Learning of Time Dynamics in Ergodic Systems** *Ross, Edmund*	**Application range of a mathematical model computing distributions of random impulse excitations** *Frankowska, Natalia; Sulewski, Marek*

S27.04	**Platform for structured self-directed learning in fluid mechanics** *Fischer, Michael-David*	**Platform for structured self-directed learning in fluid mechanics** *Fischer, Michael-David*	**On methods to motivate students to self-organized learning and to enable them to acquire future skills** *Bartel, Thorsten*	**Bring your own smartphone: Student activation in mechanics using the sandwich principle and collective smartphone experiment** *Kurzeja, Patrick*	**Mathematical Modelling in Action: CAMMP's Educational Activities** *Bata, Katharina*	

PL 7	**11:00**	**Large interacting particle systems in the social and data sciences** *Wolfram, Marie-Therese*

PL 8	**12:00**	**A multiscale perspective on electrical conductivity** *Menzel, Andreas*

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