

9th Chinese-German Workshop on Computational and Applied Mathematics, University of Bonn, October 5-9, 2026

Mon, Oct 5	Tue, Oct 6	Wed, Oct 7	Thu, Oct 8	Fri, Oct 9
08:45 – 09:00 Opening				
9:00 – 09:30 J. Hu	9:00 – 09:30 C. Su	9:00 – 09:30 M. Braack	9:00 – 09:30 M. Hauck	9:00 – 09:30 G. Dong
09:30 – 10:00 C. Carstensen	09:30 – 10:00 B. Li	09:30 – 10:00 L. Diening	09:30 – 10:00 R. Scheichl	09:30 – 10:00 Y. Zhang
10:00 – 10:30 Coffee break	10:00 – 10:30 Coffee break	10:00 – 10:30 Coffee break	10:00 – 10:30 Coffee break	10:00 – 10:30 Coffee break
10:30 – 11:00 J. Storn	10:30 – 11:00 C. Lehrenfeld	10:30 – 11:00 J. Duan	10:30 – 11:00 T. Wick	10:30 – 11:00 I. Neitzel
11:00 – 11:30 J. Gedicke	11:00 – 11:30 O. Sander	11:00 – 11:30 C. Ma	11:00 – 11:30 G. Kanschat	11:00 – 11:30 M. Hinze
11:30 – 13:30 Lunch break	11:30 – 13:30 Lunch break	11:30 – 13:30 Lunch break	11:30 – 13:30 Lunch break	11:30 – 13:30 Lunch break
13:30 – 14:00 R. Ma	13:30 – 14:00 D. Liu	13:30 – 16:00 Time for free discussions	13:30 – 14:00 X. Xie	13:30 – 14:00 W. Gong
14:00 – 14:30 Y. Liang	14:00 – 14:30 X. Xu		14:00 – 14:30 H. Sun	14:00 – 14:30 R. Herzog
14:30 – 15:00 Coffee break	14:30 – 15:00 Coffee break		14:30 – 15:00 Coffee break	14:30 – 15:00 Closing & Coffee break
15:00 – 15:30 B. Zwicknagl	15:00 – 15:30 D. Peterseim		15:00 – 15:30 P. Henning	
15:30 – 16:00 C. Rieger	15:30 – 16:00 F. Bertrand		15:30 – 16:00 N.T. Tran	
	16:00 – 16:30 A. Voigt		16:00 – 16:30 C. Helzel	
	16:30 – 17:00 P. Lu		16:30 – 17:00 T. Richter	
			19:00 – 21:00 Workshop dinner	

Fleurianne Bertrand: Local Quasi-equilibration of fluxes with the Least-Squares method
Malte Braack: Mapped coercive real- and complex-valued PDEs
Carsten Carstensen: Nonconforming approximation of Ginzburg-Landau-type semilinearities
Lars Diening: Regularity of discrete solutions
Guozhi Dong: Second-order dynamics: An old bottle of new wine
Junming Duan: An Active Flux Method for Compressible Navier-Stokes Equations
Joscha Gedicke: A generalized hessian-based error estimator for the 2d biharmonic problem via SIPDG
Wei Gong: A penalty approach for topology optimization problems
Moritz Hauck: Numerical analysis of dynamic spatial network models
Christiane Helzel: Fully discrete Active Flux methods for the Euler equations
Patrick Henning: Finite Element Resolution of Nonlinear Ground-State Problems with Small Scales
Roland Herzog: Preconditioned solution of a magnetostatic optimal control problem
Michael Hinze: Provably convergent PDE constrained shape optimization
Jun Hu: Discretizing linearized Einstein–Bianchi system by symmetric and traceless tensors
Guido Kanschat: Efficient GPU implementations of multigrid methods
Christoph Lehrenfeld: Discrete streamfunction and harmonic fields for incompressible flows on general surfaces
Buyang Li: Finite element methods for isometric embedding of Riemannian manifolds
Yizhou Liang: Finite Element Complexes with Traces Structures: A unified framework for cohomology and bounded interpolation
Dongjie Liu: The nonconforming finite element methods for equations with p-Laplace structure
Peipei Lu: Two-level hybrid Schwarz methods for Helmholtz equation with high wavenumber
Chupeng Ma: A unified framework for low-rank approximations to multiscale PDEs with optimal error bounds
Rui Ma: Adaptive $H(\text{divdiv})$ mixed finite element methods for the Kirchhoff-Love plate bending problem
Ira Neitzel: On some aspects of four-dimensional variational data assimilation problems in low-regularity spaces
Daniel Peterseim: Metric-driven numerical methods for nonlinear eigenvalue problems
Thomas Richter: Hybrid Neural Network / Finite Element Approaches for Solving Partial Differential Equations
Christian Rieger: Semi-Lagrange methods on manifolds
Oliver Sander: Numerical Analysis of Geometric FE Discretizations of Cosserat Materials
Robert Scheichl: Localised Model Reduction via Generalised Finite Elements
Johannes Storn: The singular Zienkiewicz tetrahedron
Chunmei Su: Temporal high-order parametric finite element methods for geometric flows
Hongpeng Sun: A stochastic preconditioned Douglas-Rachford splitting method for saddle-point problems
Ngoc Tien Tran: Finite element discretizations for fully nonlinear Hamilton-Jacobi-Bellman equations
Axel Voigt: Arrested coarsening in two-phase systems and characterization of resulting morphologies
Thomas Wick: Parallel Monolithic Matrix-Free Solvers for Coupled Problems
Xiaoping Xie: A Reynolds-semi-robust globally divergence-free E-HDG method for variational data assimilation problems of Navier-Stokes Equations
Xuejun Xu: Interior Eigensolvers with Domain Decomposition
Ye Zhang: Neural network yields regularization for ill-posed inverse problems
Barbara Zwicknagl: Variational models for pattern formation in materials: From frustrated spin systems to shape-memory alloys