Schedule GIP Annual Meeting 2025

Venue: Innovation Center

Room 0.01

Time	Wednesday 8 October 2025	Thursday 9 October 2025
8:30 am – 9 am	Registration	
9 am – 9:15 am	Welcome	information
	Chair: Andreas Rupp	*Chair: Thomas Schuster*
9:15 am – 10 am	**Lauri Oksanen** **(University of Helsinki)** ***Optimality of stabilized finite element methods for elliptic unique continuation***	**Anne Wald** **(University of Göttingen)** ***Inverse problems for the identification of forces in biophysics***
10 am – 10:30 am	Marvin Knöller (University of Helsinki) *A computational method for the inverse Robin problem with convergence rate*	Ole Løseth Elvetun (Norwegian University of Life Sciences) *Weighted group sparsity for an inverse EEG problem*
10:30 am – 11:00 am	Coffee break	Coffee break
11:00 am – 11:30 am	Bjørn Fredrik Nielsen (Norwegian University of Life Sciences) *Weighted TV-regularization*	E. Todd Quinto (Tufts University Medford) *Spherical Radon transforms in tomography*
11:30 am – 12 am	Tim Jahn (TU Berlin) *Convergence of heuristic parameter choice rules for statistical inverse problems*	Hendrik Baers (University of Bonn) *Reducing stability questions for a nonlocal to a local Calderón type problem*
12 am – 12:30 pm	Robert Plato (University of Siegen) *Regularization of linear ill-posed problems with smooth solutions of low order in Banach spaces*	Sarah Eberle-Blick (KU Eichstätt-Ingolstadt) *Reconstructions of inclusions in elastic bodies based on experimental data*
12:30 pm – 1 pm	Diana-Elena Mirciu (University of Klagenfurt) *Higher order error estimates for regularization of inverse problems under non-additive noise*	Jaakko Kultima (RICAM Linz) *Wavelet-based reconstruction for Bayesian inverse problems in photoacoustic tomography*

1 pm – 2:30 pm	lunch	group photo lunch
	Chair: Frank Werner	*Chair: Bernadette Hahn-Rigaud*
2:30 pm – 3:15 pm	**Björn Sprungk** **(TU Freiberg)** ***Bayesian inverse problems – stability and noise-level robust sampling***	**Leon Bungert** **(University of Würzburg)** ***Sparsity and robustness in learning: insights from inverse problems***
3:15 pm – 3:45 pm	Volker Michel (University of Siegen) *Motivating children and adults for inverse problems – suggestions and experiences*	Dean Zenner (Saarland University Saarbrücken) *Learning a neural operator for inverse parameter estimation of an electric arc furnace*
3:45 pm – 4:15 pm	Coffee break	Coffee break
		Chair: Volker Michel
4:15 pm – 4:45 pm	Simon Hackl (University of Linz) *Sound speed and layer adapted focusing methods in medical ultrasound*	Alice Oberacker (Saarland University Saarbrücken) *Reducing motion artifacts in nano-CT imaging with a learned RESESOP method*
4:45 pm – 5:15 pm	Tim-Jonas Peter (University of Siegen) *Modelling of the earth's gravitational response to surface loading: an overview of available methods for Love number calculation*	Simon Hubmer (University of Linz) *The SCD semismooth* Newton method for the efficient meinimization of Tikhonov functionals*
5:15 pm – 5:45 pm	Lisa Schätzle (Aalto University) *Far field operator splitting for inhomogeneous medium scattering*	Simon Weißmann (University of Mannheim) *Stability and convergence for stochastic gradient descent with decaying Tikhonov regularization*
7 pm	conference diner at „Brauhaus Stiefel“	general assembly of GIP e.V. room: 0.01

Room 3.03

Parallel session Wednesday, 8 October

Report and information German – Sino collaboration project

3:15 pm – 3:45 pm: Ming Jiang (University of Peking)

Summary of the Sino-German Mobility Programme (M-0187)

3:45 pm – 4:15 pm: Peter Maaß (University of Bremen)

Status of the osteoporosis project

Room 0.01

Time	Friday 10 October 2025
	Chair: Thomas Schuster
9:00 am – 9:30 am	Thorsten Hohage (University of Göttingen) *Phase contrast imaging with partial coherence: Uniqueness and reconstructions from intensity correlations*
9:30 am – 10:00 am	Jan-Frederik Pietschmann (University of Augusburg) *Transport map regularization for source identification*
10:00 am – 10:30 am	Florian Oberender (University of Göttingen) *Stability of inverse problems in PINEM quantum tomography*
10:30 am – 11:00 am	Amine Othmane (Saarland University Saarbrücken) Identification of cost functionals and stabilizing feedback laws in optimal control problems
11:00 am	Coffee break and closing