# Schedule Numerik im Ländle 2025

| from | to | Mon. 5. May 2025 | Tue. 6. May 2025 |
|---|---|---|---|
| 8:45 | | | |
| 9:15 | 9:35 | Registration/Coffee | |
| 9:35 | 10:00 | | Herzog (HD) |
| 10:00 | 10:25 | Zech (HD) | Schembera (S) |
| 10:25 | 10:50 | | Coffee |
| 10:50 | 11:15 | Jahnke (KA) | Azmi (KO) |
| 11:15 | 11:40 | Jackisch (FR) | Baumgarten (HD) |
| 11:40 | 12:05 | Musco (S) | Barthwal (S) |
| 12:05 | 13:30 | Lunch | Lunch |
| 13:30 | 13:55 | Striet (FR) | Göttlich (MA) |
| 13:55 | 14:20 | Hauck (KA) | |
| 14:20 | 14:45 | König (S) | Dörich (KA) |
| 14:45 | 15:10 | Lainez Reyes (S) | Shi (TÜ) |
| 15:10 | 15:35 | Scheichl (HD) | Nottoli (S) |
| 15:35 | 16:00 | Coffee | Discussion/Closing |
| 16:00 | 16:50 | Harbrecht (BS) | |
| 16:50 | 17:15 | Urban (U) | |
| 17:15 | 17:40 | Discussion | |
| 19:00 | 21:00 | Dinner | |

| Speaker | Title |
|---|---|
| **Zech** | **Statistical Learning Theory for Neural Operators** |
| Jahnke | High-frequency wave propagation - analysis and numerics |
| Jackisch | Constrained Total Variation Minimization: Nonconforming Discretization and Adaptivity |
| Musco | Deep learning methods for stochastic Galerkin approximations of elliptic random PDEs |
| Striet | Numerical treatment of generalized Gamow problems |
| Hauck | Positivity preserving FEM for the Gross-Pitaevskii ground state |
| König | Generalized Bayesian Inversion |
| Lainez Reyes | A Posteriori Error Bounds for Kohn-Sham Systems with Convex Exchange Correlation Functionals |
| Scheichl | Dirichlet-Neumann Averaging: The DNA of Efficient Gaussian Process Simulation |
| **Harbrecht** | **Samplets: Wavelet concepts for scattered data** |
| Urban | A posteriori error control of PINNs for solving PDEs |
| Herzog | Geodesic Programming |
| Schembera | Research Data Management for Applied Mathematics |
| Azmi | Optimal switching Dirac control for stabilization of time-varying linear parabolic equations |
| Baumgarten | Multilevel Stochastic Gradient Descent Applied to Optimal Control Under Uncertainty |
| Barthwal | On a generalized Riemann solver for a hyperbolic model of two-layer thin film flow |
| **Göttlich** | **Nonlocal Traffic Models** |
| Dörich | A multiscale approach to the stationary Ginzburg-Landau equations of superconductivity |
| Shi | Filtered finite difference methods for nonlinear Schrödinger equations in semiclassical scaling |
| Nottoli | A symmetry-preserving and transferable representation for learning the Kohn-Sham density matrix |