

## 2 Scientific Programme

### 2.1 Wednesday, 16.09.2026

| Time        | Type                     | Speaker             | Title                                                                                               |
|-------------|--------------------------|---------------------|-----------------------------------------------------------------------------------------------------|
| 09:00–10:30 | Registration             |                     |                                                                                                     |
| 10:30–10:45 | Opening Remarks          |                     |                                                                                                     |
| 10:45–11:45 | <b>Invited</b>           | Alberto de Marchi   | Numerical Approaches to Regularized Nonlinear Programming                                           |
| 11:45–12:10 | Contributed              | Bastian Dittrich    | A DC-Reformulation for Gradient- $L^0$ -Constrained Problems                                        |
| 12:10–12:35 | Contributed              | Daniel Walter       | Nonconvex regularization in sparse minimization problems                                            |
| 12:35–14:00 | <i>Lunch Break</i>       |                     |                                                                                                     |
| 14:00–15:00 | <b>Invited</b>           | Carmen Gräßle       | Optimal control perspective on 4D-Var data assimilation: error estimates and reduced order modeling |
| 15:00–15:25 | Contributed              | Philipp Graser      | Numerical Approach to Nonsmooth Optimal Control Problems governed by Nonlinear Elliptic PDE's       |
| 15:25–15:55 | <i>Refreshment Break</i> |                     |                                                                                                     |
| 15:55–16:20 | Contributed              | Constantin Christof | Superlinear Convergence for Semismooth Newton Methods in Vector Lattice Spaces                      |
| 16:20–16:45 | Contributed              | Kilian Bernreuther  | Sparsity-Promoting Time-Optimal Control of Bilinear Quantum Systems: A Semismooth Newton Approach   |
| 19:00       | <b>Conference Dinner</b> |                     |                                                                                                     |