

# Applied Mathematics

Location: Location: SU, Kräftriket, Building 5, room 31

- **Thursday, March 17**

14:00 – 14:30 Steen Markvorsen, A Finsler geometric Attack on Wildfires

14:30 – 15:00 Olli Mali, Worst case scenario approach for convex minimization problems with incompletely known data

15:00 – 15:30 Andre Massing, CutFEM: Discretizing Geometry and Partial Differential Equations

## **Coffee break**

16:00 – 16:30 Jeonghun Lee, Construction and Analysis of Hybridized discontinuous Galerkin methods for incompressible magnetohydrodynamics equations

16:30 – 17:00 Miettinen Kaisa, Supporting Decision Making with Interactive Multiobjective Optimization Methods: NAUTILUS Family

17:00 – 17:30 Mohammad Asadzadeh , Discrete-Ordinates and Stabilized Finite Element Methods for Pressure Driven Flows of Rarefied Gases through Long Channels

- **Friday, March 18**

14:00 – 14:30 Marko Huhtanen, Optimal quotients for solving large eigenvalue problems

14:30 – 15:00 Martin Westerholt-Raum, HLinear: Fast functional linear algebra

15:00 – 15:30 Francois Lauze , On Perspective Photometric Stereo

**Coffee break**

16:00 – 16:30 Murtazo Nazarov, Towards invariant domain preserving high order continuous finite elements for conservation laws

16:30 – 17:00 Ulrik Fjordholm, Statistical solutions for hyperbolic conservation laws

17:00 – 17:30 Philipp Birken, Modelling and Simulation for thermal structure interaction

- **Saturday, March 19**

14:00 – 14:30 Nuutti Hyvonen, Simultaneous reconstruction of outer boundary shape and conductivity distribution in electrical impedance tomography

14:30 – 15:00 Mirza Karamehmedović , An analytic mapping property of the Dirichlet-to-Neumann operator in Helmholtz boundary problems

15:00 – 15:30 Stratos Staboulis, Convergence and regularization of monotonicity-based shape reconstruction in EIT

**Coffee break**