

Schedule

Monday

- 9:00 - 9:45 **Douglas Arnold**
Hilbert complexes for numerical PDE
([watch recording](#)) ([pdf](#))
- 9:45 - 10:15 Q&A and break
- 10:15 - 11:00 **Kaibo Hu**
Discretization of Hilbert complexes
([watch recording](#)) ([pdf](#))
- 11:00 - 11:30 Q&A and break
- 11:30 - 12:15 **Snorre Christiansen**
Finite element systems
([watch recording](#)) ([pdf](#))
- 12:15 - 12:30 Q&A
- 12:30 - 16:00 Lunch and free time
- 16:00 - 16:45 **Evan Gawlik**
Finite elements for Riemannian geometry
([watch recording](#)) ([pdf](#))
- 16:45 - 17:15 Q&A and break
- 17:15 - 18:00 **Michael Neilan**
Smooth finite element sequences on Powell-Sabin and
Worsey-Farin splits
([watch recording](#)) ([pdf](#))

Tuesday

- 9:30 - 10:15 **Ralf Hiptmair**
Traces for Hilbert complexes
[\(watch recording\)](#) [\(pdf\)](#)
- 10:15 - 11:00 Q&A and break
- 11:00 - 11:45 **Erick Schulz**
Boundary integral exterior calculus
[\(watch recording\)](#) [\(pdf\)](#)
- 11:45 - 12:30 Q&A and break
- 12:30 - 13:30 Lunch
- 13:30 - 18:30 **Afternoon hike**

Wednesday

- 9:30 - 10:15 **Ari Stern**
Hybridization and postprocessing in finite element exterior calculus
([watch recording](#)) ([pdf](#))
- 10:15 - 11:00 Q&A and break
- 11:00 - 11:45 **Ragnar Winther**
The bubble transform and the de Rham complex
([watch recording](#)) ([pdf](#))
- 11:45 - 12:30 Q&A and break
- 12:30 - 16:00 Lunch and free time
- 16:00 - 16:45 **Francesca Bonizzoni**
BGG sequences of tensor product finite elements with arbitrary continuity
([watch recording](#)) ([pdf](#))
- 16:45 - 17:15 Q&A and break
- 17:15 - 18:00 **Joachim Schöberl**
Matrix-valued finite elements with applications in mechanics and curvature computation
([watch recording](#)) ([pdf](#))
- 18:00 - 18:30 Q&A and break

Thursday

- 9:30 - 10:15 **Yakov Berchenko-Kogan**
Duality and symmetry in finite element exterior calculus
([watch recording](#)) ([pdf](#))
- 10:15 - 11:00 Q&A and break
- 11:00 - 11:45 **Jay Gopalakrishnan**
Discrete elasticity complex for Alfeld splits
([watch recording](#)) ([pdf](#))
- 11:45 - 12:30 Q&A and break
- 12:30 - 16:00 Lunch and free time
- 16:00 - 16:45 **Leszek F. Demkowicz**
Parhp3D - A parallel hp code supporting the exact sequence
and elements of all shapes
([watch recording](#)) ([pdf](#))
- 16:45 - 17:15 Q&A and break
- 17:15 - 18:00 **Anil N. Hirani**
Curvature in discrete vector bundles with connection
([watch recording](#))
- 18:00 - 18:30 Q&A and break

Friday

- 9:00 - 9:45 **Oliver Sander**
Geometric finite elements
[\(watch recording\)](#) [\(pdf\)](#)
- 9:45 - 10:00 Q&A and break
- 10:00 - 10:45 **Sanna Mönkölä**
Numerical simulation of wave equations
[\(watch recording\)](#) [\(pdf\)](#)
- 10:45 - 11:00 Q&A and break
- 11:00 - 11:45 **Lauri Kettunen & Tuomo Rossi**
Towards "all" boundary value problems - exploitation of the structural properties
[\(watch recording\)](#) [\(pdf\)](#)
- 11:45 - 12:00 Q&A and break
- 12:30 Lunch