Tuesday's Minisymposium sessions

Mini 7: Least Squares Problems (Lecture Theatre 1)

Mini 8: Numerical Methods for Quantum and Molecular Systems (Tun Razak Lecture Theatre)

Mini 9: Algorithmic Approaches in Numerical Analysis (Seminar Room 1)

Mini 10: Tools in Numerical Linear Algebra (Seminar Room 2)

Mini 11: Numerical Geometry and Shape Optimization (Seminar Room 3)

Mini 12: Early-career researchers II (Seminar Room 4)

Tuesday	Mini 7	Mini 8	Mini 9	Mini 10	Mini 11	Mini 12
3:45	Scott	Hassan	Derevianko	Damle	Paganini	Yu
4:10	Widdershoven	Ukena	Serkh	Montanelli	Zavalani	Trujillo
4:35	Meier	Mikkelsen	Zerbinati	Stoll	Baier-Reinio	Daužickaitė
5:00	-	Bellotti	Singh	Fink Shustin	Linß	_

Minisymposium 7: Least Squares Problems

Location: Lecture Theatre 1

3:45-4:05 Jennifer Scott

Solving large linear least squares problems with equality constraints

4:10-4:30 Raphaël Widdershoven

Tensor-based methods for the solution of overdetermined systems of polynomial equations

4:35-4:55 Maike Meier

Are sketch-and-precondition least squares solvers numerically stable?

Minisymposium 8: Numerical Methods for Quantum and Molecular Systems

Location: Tun Razak Lecture Theatre

- 3:45-4:05 Muhammad Hassan
 On the Numerical Analysis of the Coupled Cluster Method in
 Quantum Computational Chemistry
- 4:10-4:30 Riko Ukena Pseudospectra of generalized Schrödinger operators
- 4:35-4:55 Carl Christian Kjelgaard Mikkelsen Accuracy and stability in molecular dynamics with constraints
- 5:00-5:20 Thomas Bellotti
 Finite Difference formulation of any lattice Boltzmann scheme:
 consistency, stability and convergence

Minisymposium 9: Algorithmic Approaches in Numerical Analysis

Location: Seminar Room 1

- 3:45-4:05 Nadiia Derevianko
 ESPIRA for recovery of exponential sums and its application
- 4:10-4:30 Kirill Serkh

 An algorithm for the efficient evaluation of the Epstein zeta function on finite lattices
- 4:35-4:55 Umberto Zerbinati
 When rational function meets virtual elements: "The lightning
 Virtual Element Method"
- 5:00-5:20 Pranav Singh Uniform and unitary rational approximations of the matrix exponential

Minisymposium 10: Tools in Numerical Linear Algebra

Location: Seminar Room 2

3:45-4:05 Anil Damle

Fine-grained Theory and Hybrid Algorithms for Randomized Numerical Linear Algebra

4:10-4:30 Hadrien Montanelli

The linear sampling method for random sources

4:35-4:55 Martin Stoll

Efficient numerical linear algebra for Gaussian processes

5:00-5:20 Paz Fink Shustin

Semi-Infinite Linear Regression and Its Applications

Minisymposium 11: Numerical Geometry and Shape Optimization

Location: Seminar Room 3

3:45-4:05	Alberto Paganini Numerical Shape Optimization with B-Spline Wavelets
4:10-4:30	Gentian Zavalani High-Order-Integration for Regular Closed Surfaces
4:35-4:55	Aaron Baier-Reinio High-Order Finite Element Schemes for the Stokes-Onsager-Stefan-Maxwell Equations
5:00-5:20	Torsten Linß Uniform convergence of an arbitrary order balanced FEM applied to a singularly perturbed shell problem

Minisymposium 12: Early-career researchers II

Location: Seminar Room 4

3:45-4:05 Annan Yu

Leveraging the AAA algorithm and the Hankel norm approximation in reduced-order modeling

4:10-4:30 Andrés Miniguano Trujillo

Parameter identification for the SIRD model using PDE-constrained optimisation

4:35-4:55 leva Daužickaitė

Mixed precision least-squares iterative refinement with randomized preconditioning