Monday, 14th August

Minisymposium sessions 1-6

Mini 1: Interpolation and Approximation Methods (Lecture Theatre 1)
Mini 2: Spectral and Polynomial Methods (Tun Razak Lecture Theatre)
Mini 3: Techniques related to Numerical Linear Algebra (Seminar Room 1)
Mini 4: Numerical Optimization and Analysis (Seminar Room 2)
Mini 5: Numerical Methods for Differential Equations (Seminar Room 3)
Mini 6: Early-career researchers I (Seminar Room 4)

Monday	Mini 1	Mini 2	Mini 3	Mini 4	Mini 5	Mini 6
3:45	Berrut	Olver	Moufawad	Toh	Hansen	Leveque
4:10	Fortunato	Papadopoulos	Burke	Hall	Engström	Heinzelreiter
4:35	Salazar Celis	Slevinsky	Baglama	Chok	Toro	Drysdale
5:00	Goodrich	Burns	Hashemi	Ang	Rufai	Buggenhout
5:25	Austin	Vasil	MacDonald	Shustin	Xue	Cisneros

Monday, 14th August

Minisymposium 1: Interpolation and Approximation Methods

Location: Lecture Theatre 1

3:45-4:05 Jean-Paul Berrut
Rational sinc interpolants and point shifts

4:10-4:30 Daniel Fortunato
A high-order fast direct solver for surface PDEs

4:35-4:55 Oliver Salazar Celis
Greedy rational interpolation and continued fractions

5:00-5:20 Ben Goodrich
Interpolating Continuous Functions on the Unit Hypercube

5:25-5:45 Anthony Austin
On Trigonometric Interpolation in an Even Number of Points

Monday, 14th August

Minisymposium 2: Spectral and Polynomial Methods

Location: Tun Razak Lecture Theatre

3:45-4:05 Sheehan Olver
Sparse hp-FEM with p up to a billion

4:10-4:30 Ioannis Papadopoulos
Sparse hp-FEM and spectral methods for the Helmholtz equation posed on disks and annuli via generalized Zernike annular polynomials

4:35-4:55 Richard Mikael Slevinsky
Polynomial and rational measure modifications of orthogonal polynomials via infinite-dimensional banded matrix factorizations

5:00-5:20 Keaton Burns
Corner cases of the generalized tau method

5:25-5:45 Geoff Vasil
Generalising the classical tau method for fun and profit

Monday, 14th August

Minisymposium 3: Numerical Linear Algebra

Location: Seminar Room 1

3:45-4:05 Sophie Moufawad
S-Step and Flexible Enlarged Conjugate Gradient Methods

4:10-4:30 Liam Burke
Krylov Subspace Recycling For Matrix Functions

4:35-4:55 James Baglama
Golub-Kahan-Lanczos Bidiagonalization (GKLB) Methods for Computing Singular Triplets for Very Large Sparse Matrices and Applications

5:00-5:20 Behnam Hashemi
Rectangular eigenvalue methods

5:25-5:45 Colin Macdonald
Nearest Neighbor Sampling of Point Sets using Random Rays

Monday, 14th August

Minisymposium 4: Numerical Optimization and Analysis

Location: Seminar Room 2

3:45-4:05 Kim-Chuan Toh
A Feasible method for linearly constrained convex SDP problems

4:10-4:30 Julian Hall
Direct solution of equations in large-scale linear optimization

4:35-4:55 James Chok
Rational Function Approximation as Constrained Optimization

5:00-5:20 Andersen Ang
A multigrid proximal gradient method for nonsmooth convex optimisation

5:25-5:45 Boris Shustin
Manifold-Free Riemannian Optimization

Monday, 14th August

Minisymposium 5: Numerical Methods for Differential Equations

Location: Seminar Room 3

3:45-4:05 Eskil Hansen
Convergence analysis of the nonoverlapping Robin–Robin method for nonlinear elliptic equations

4:10-4:30 Emil Engström
Time-dependent Steklov–Poincaré operators and space-time Robin–Robin decomposition for the heat equation

4:35-4:55 Eleuterio Toro
The ADER approach for constructing very-high order schemes for approximating hyperbolic equations

5:00-5:20 Mufutau Ajani Rufai
An adaptive one-step block method for integrating reaction-diffusion Brusselator system

5:25-5:45 Yidan Xue
Computation of 2D Stokes flows via lightning and AAA rational approximation

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Monday, 14th August

Minisymposium 6: Early-career researchers I

Location: Seminar Room 4

3:45-4:05 Santolo Leveque
Parallel-in-time solvers for the all-at-once Runge–Kutta discretization

4:10-4:30 Bernhard Heinzelreiter
Efficient numerical linear algebra for large-scale PDE-constrained optimization problems

4:35-4:55 Catherine Drysdale
Computation and Certification of the Pseudospectral Boundary

5:00-5:20 Niel Van Buggenhout
A new Legendre polynomial-based approach for non-autonomous linear ODEs

5:25-5:45 Jorge Cisneros
Split-step methods with finite difference schemes and analy
continuation formulas
