

MSC15. Connection between rational function/polynomial approximation and structured matrices for solving differential equations.

Organizers: Olivier Sète, Niel Van Buggenhout.

TUESDAY, 11:10–11:40: **AULA 3**. Rational Krylov for Stieltjes matrix functions with Kronecker structure. Leonardo Robol.

TUESDAY, 11:40–12:10: **AULA 3**. Sketched and truncated polynomial Krylov methods for matrix equations. Marcel Schweitzer.

TUESDAY, 12:10–12:40: **AULA 3**. Quantum Krylov Methods: What's the Deal?. Roel Van Beeumen.

TUESDAY, 12:40–13:10: **AULA 3**. A new Legendre polynomial approach for computing the matrix exponential. Shazma Zahid.

THURSDAY, 17:00–17:30: **AULA 3**. A \ast -product solver for linear nonautonomous fractional differential equations. Fabio Durastante.

THURSDAY, 17:30–18:00: **AULA 3**. Rational approximation with minimal sampling for Helmholtz-like problems. Davide Pradovera.

THURSDAY, 18:00–18:30: **AULA 3**. Rational approximations of BEM systems for the 3D scalar Helmholtz equation. Simon Dirckx.

THURSDAY, 18:30–19:00: **AULA 3**. Polynomial preconditioning with Faber polynomials for the Helmholtz equation. Olivier Sète.

Updated: 02 June 2023