



# GAMM2025

## Tuesday 8 April 2025

### S17: Applied and numerical linear algebra: S17.01 - Room 0.21 (08:30 - 10:30)

-Conveners: Volker Mehrmann

time	[id] title	presenter
08:30	[599] Accelerating operator Sinkhorn iteration with overrelaxation	USCHMAJEW, André
09:10	[600] Mixed-Precision Parallel Tensor Train Operations	OKTAY, Eda
09:30	[601] Mixed-precision techniques for the low-rank Lyapunov ADI	SCHULZE, Jonas
09:50	[602] A hybrid Chebyshev-Tucker tensor format with applications to multi-particle modelling	SUN, Bonan
10:10	[603] Mixed-precision iterative refinement for low-rank Lyapunov equations	LIU, Xiaobo

### S17: Applied and numerical linear algebra: S17.02 - Room 0.21 (16:30 - 18:30)

-Conveners: Luka Grubišić

time	[id] title	presenter
16:30	[604] Structured rational matrices and their linearizations	DOPICO, Froilán
17:10	[605] System representation of rational functions with poles outside an annulus	WOJTYLAK, Michał
17:30	[606] The closure of the bundle of a matrix pencil	PAGACZ, Patryk
17:50	[607] Regularization and stabilization of port-Hamiltonian descriptor systems via output feedback	MEHRMANN, Volker
18:10	[608] On port-Hamiltonian partial differential algebraic equations	PREUSTER, Till

# Wednesday 9 April 2025

## S17: Applied and numerical linear algebra: S17.03 - Room 0.21 (16:30 - 18:30)

-Conveners: Michal Outrata

time	[id] title	presenter
16:30	[610] Towards understanding Krylov subspace methods through examples	LIESEN, Jörg
16:50	[611] Spectral properties of certain nonsymmetric saddle point matrices	RAMME, Justus
17:10	[612] Spectral analysis of preconditioners for fully implicit Runge-Kutta methods	OUTRATA, Michal
17:30	[613] On a matrix-Newton-type framework for solving NEPv	WERNER, Tom
17:50	[614] Generic eigenvalue algorithms and singular value algorithms for matrices of quaternions, reduced biquaternions, and dual numbers	SLAPNIČAR, Ivan
18:10	[609] Pollution free eigenvalue bounds for the Gramian operator	GRUBIŠIĆ, Luka