The f(A)bulous workshop on matrix functions and exponential integrators

Monday, 25 September 2023

Contributed talks: Krylov subspaces - **Main/groundfloor-V0.05/2+3 - Prigogine (10:30 - 12:00)**

-Conveners: Stéphane Gaudreault

time	[id] title	presenter
10:30	[5] Krylov Subspace Recycling For Matrix Functions	BURKE, Liam
11:20	[9] Adaptive rational Krylov methods for exponential Runge--Kutta integrators	BERGERMANN, Kai Prof. STOLL, Martin
11:40	[11] Error bounds for the approximation of matrix functions with rational Krylov methods	SIMUNEC, Igor

Tuesday, 26 September 2023

Contributed talks: Exponential integration - Main/groundfloor-V0.05/2+3 - Prigogine (11:00 - 12:00)

  -Conveners: Helmut Podhaisky

time	[id] title	presenter
11:00	[8] Domain-based explicit-exponential methods for flow problems	BIRKEN, Philipp
11:20	[6] Efficient numerical solution of spatially variable coefficients ADR equations using exponential integrators	CASSINI, Fabio
11:40	[14] Projected exponential methods for stiff dynamical low-rank approximation problems	CARREL, Benjamin

Wednesday, 27 September 2023

<u>**Contributed talks: Randomization and trace(f(A))**</u> **- Main/groundfloor-V0.05/2+3 - Prigogine (11:00 - 12:00)**

  -Conveners: Philipp Birken

time	[id] title	presenter
11:00	[12] Analysis of stochastic probing methods for estimating the trace of functions of sparse symmetric matrices	RINELLI, Michele
11:20	[4] Randomized low-rank approximation of monotone matrix functions	PERSSON, David
11:40	[29] Sensitivity of matrix function based network communicability measures	SCHWEITZER, Marcel