WORKSHOP PROGRAM
Numerical Methods for Evolution Equations
Heraklion, Crete, September 19-20, 2025

Friday, September 19	
9:15-9:30	**Opening**
	Chair: Vidar Thomée
9:30-10:00	**Christian Lubich** (U. Tübingen) *Regularized dynamical parametric approximation of evolution problems.*
10:00-10:30	**Balázs Kovács** (U. Paderborn) *Error estimates for BDF full discretisation of Cahn–Hilliard equation with dynamic boundary condition.*
10:30-11:00	**Maria López-Fernández** (U. Malaga) *Convolution quadrature for the quasilinear subdiffusion equation.*
Coffee Break	
	Chair: Patrick Joly
11:30-12:00	**Alexandre Ern** (U. Paris) *Convergence of ERK-DG approximations of the first-order form of Maxwell's equations with low regularity.*
12:00-12:30	**Axel Målqvist** (Chalmers U. of Technology) *Numerical simulation of beam network models.*
12:30-13:00	**Stig Larsson** (Chalmers U. of Technology) *Nonlinear filtering based on density approximation and deep BSDE prediction.*
Lunch Break	
	Chair: Alexandre Ern
14:30-15:00	**Patrick Joly** (INRIA) *On numerical methods via quadrature for computing integrals of fractal sets.*
15:00-15:30	**Mats Larson** (Umea U.) *Solving inverse and ill-posed problems using finite elements and machine learning.*
15:30-16:00	**Emmanuil Georgoulis** (NTU Athens, Heriot-Watt U., and IACM) *Level-set shape optimization via polytopic discontinuous Galerkin methods.*
Coffee Break	
	Chair: Maria López-Fernández
16:30-17:00	**Michael Feischl** (Technical U. Wien) *Optimal adaptive timestepping.*
17:00-17:30	**Theodoros Katsaounis** (U. Crete) *Aposteriori error estimates for the Schrödinger-Poisson system.*
17:30-18:00	**Natalia Kopteva** (U. Limerick) *Pointwise-in-time a-priori and a-posteriori error control for subdiffusion equations.*
18:00-18:30	**Gabriel Barrenechea** (U. Strathclyde) *Implicit-explicit schemes for incompressible flows with variable viscosity and density.*

Saturday, September 20	
	Chair: Stig Larsson
9:30-10:00	**Buyang Li** (Hong Kong Polytechnic U.) *A new approach to the analysis of parametric finite element approximations to geometric flow.*
10:00-10:30	**Thomas Wihler** (U. Bern) *Pseudo-time iterations for variational PDE.*
10:30-11:00	**Sören Bartels** (U. Freiburg) *Unconstrained approximation of constrained problems.*
Coffee Break	
	Chair: Angela Kunoth
11:30-12:00	**Daniel Peterseim** (U. Augsburg) *Quantum algorithms for computational PDEs.*
12:00-12:30	**Konstantinos Chrysafinos** (Technical U. Athens) *Error estimates for discontinuous Galerkin schemes for the parabolic p-Laplacian.*
12:30-13:00	**Lehel Banjai** (Heriot-Watt U.) *Space-time FEM for nonlinear wave equations with elliptic regularization.*
Lunch Break	
	Chair: Charalambos Makridakis
14:30-15:00	**Tristan Pryer** (U. Bath) *Geometry, energy and sensitivity in proton dynamics.*
15:00-15:30	**Vanja Nicolić** (Radboud U.) *Multiharmonic discretization approaches for contrast-enhanced ultrasound.*
15:30-16:00	**Angela Kunoth** (U. Köln) *Multigrid B-spline methods and applications.*
Coffee Break	
	Chair: Christian Lubich
16:30-17:00	**Georgios Akrivis** (U. Ioannina and IACM) *Discrete maximal L^2 regularity in Hilbert spaces.*
17:00-17:30	**Georgios Zouraris** (U. Crete) *Approximating the DNLS equation.*
17:30-18:00	**Annika Lang** (Chalmers U. of Technology) *Simulation of random fields and stochastic partial differential equations on hypersurfaces.*