

THURSDAY, 14 FEBRUARY, 2019

09:50 Opening of the workshop

Session chair: *B. García-Archilla*

10:00 Martin Stynes A direct discontinuous Galerkin finite element method for convection-dominated two-point boundary value problems.

10:30 Torsten Linß Maximum-norm a posteriori error estimates for singularly perturbed fourth-order two-point boundary-value problems

11:00 Natalia Kopteva Finite elements in the maximum norm: 3 counterexamples and beyond

11:30 Coffee break

Session chair: *Eugene O’Riordan*

11:55 José Luis Gracia Singularly perturbed reaction-diffusion problems with discontinuities in the initial and/or the boundary data (joint work with E. O’Riordan)

12:25 Julia Novo Symmetric pressure stabilization for equal order finite element approximations to the time-dependent Navier–Stokes Equations

12:55 Róisín Hill Adapted a posteriori meshes for Burgers’ equation

13:25 Lunch at *Restaurante Metrópolis*, Reina Mercedes, 5

Session chair: *Alan Hegarty*

15:00 Niall Madden A note on an augmented space of finite elements for singularly perturbed problems.

15:30 Carmelo Clavero An efficient numerical method to solve 1D parabolic singularly perturbed systems of convection-diffusion type

16:00 Coffee break

Session chair: *Natalia Kopteva*

16:30 Vladimir Volkov Use of asymptotics for solving some classes of inverse problems for nonlinear singularly perturbed RDA equations

17:00 Nikolay Nefedov Propagation and blowing-up of fronts in reaction-diffusion-advection problems with quadratic and modular type advection

21:00 Conference dinner, *El Rinconcillo*, Gerona, 1

FRIDAY, 15 FEBRUARY, 2019

	Session chair: <i>Julia Novo</i>	
10:00	Tomás Chacón	Reduced order models for thermally-driven turbulent flows
10:30	E. D. Fernández-Nieto	A multilayer method for 2D granular flows with the $\mu(I)$ rheology: influence of side walls friction on the velocity profile
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11:00	Coffee break	
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	Session chair: <i>Martin Stynes</i>	
11:30	Eugene O’Riordan	Some properties of the solution to the Hemker problem on a bounded domain. (Part A)
12:00	Alan Hegarty	Observations on the numerical solution of the Hemker problem
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12:30+ ε	Closing of the workshop	
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13:00	Lunch at <i>Restaurante Metrópolis</i> , Reina Mercedes, 5	
