

Monday, 04/07/2022			
08 :00-09:00h	Registration (Auditorium)		
9:00 - 09:30h	Opening (Auditorium)		
	Chairman: Hugo Beirão da Veiga		
9:30 -10:15h	Alfio Quarteroni, Physics-Based and Data-Driven Models for PDEs		
10:15 -10:50h	José Francisco Rodrigues, José Sebastião e Silva, Mathematician from Mértola to Lisboa, via Evora and Roma		
10:50 -11:30h	Coffee break (Room CES 124)		
	Room CES 131	Room CES 115	Room CES 110
	Chairman: Ana Bela Cruzeiro	Chairman: Guglielmo Feltrin	Chairman: Alberto Boscaggin
11:30 – 11:55 h	Alberto Valli, Self-adjoint extensions of the curl operator	Matteo Novaga, An isoperimetric problem with capacitary repulsion	Veronica Felli, Unique continuation from the boundary for fractional problems
12 h -12:25 h	Massimo Gobino, How to recognize constant functions through double integrals of their difference quotients	Riccardo Scala, A new approach to singularities in solid mechanics via a notion of generalized Jacobian determinant	Antonio Iannizzotto, On the logistic equation for the fractional p-Laplacian
12:30 – 13 h	Ana Alonso Rodríguez, A tree-cotree technique for the approximation of the spectrum of the curl operator	Victor Ortega, Stability of a periodically perturbed point-vortex	Patrizia Pucci, Fractional elliptic systems with critical nonlinearities
13h – 14:30h	Lunch (Room CES 129)		
	Chairman: Aldo Pratelli	Chairman: Alberto Valli	Chairman: Matteo Novaga
14:30 – 14:55 h	Guglielmo Feltrin, Periodic solutions to the relativistic Kepler problem: a dynamical systems approach	Ana Bela Cruzeiro, Generalized solutions of the Navier-Stokes equation	Gabriele Bonanno, A mountain pass lemma and multiple solutions to nonlinear differential problems
15 h -15:25 h	Alberto Boscaggin, Periodic solutions to the relativistic Kepler problem: a variational approach	Filippo Gazzola, A connection between symmetry breaking for Sobolev minimizers and stationary Navier-Stokes flows past a circular obstacle	Elvira Zappale, Power law approximation for supremal functionals
15:30 – 15:55 h	Teresa Faria, Periodic solutions for systems of differential equations with delays and impulses	Ana Leonor Silvestre, Optimal boundary control for steady Navier-Stokes equations with directional do-nothing boundary condition	Anca-Maria Toader, Donati type theorems and compensated compactness in the periodic case
16 h -16:25 h	Dmitry Vorotnikov, Quadratic PDE and optimal ballistic problems	Francesca Crispo, Existence of solutions to the Navier-Stokes Cauchy problem in the $L^3$ setting	Pasquale Candito, Three solutions for Dirichlet boundary value problems driven by an $\alpha$ -Laplacian operator
16:30 -17:00h	Coffee break (Room CES 124)		

Tuesday, 05/07/2022			
	Room CES 131	Room CES 115	Room CES 110
	<b>Chairman:</b> Nicolas Van Goethem	<b>Chairman:</b> Maurizio Garrione	<b>Chairman:</b> Carlota Rebelo
9:00h - 09:25h	<b>Pierangelo Marcati</b> , Existence and Stability of almost finite energy weak solutions to the Quantum Euler-Maxwell system	<b>Ana Cristina Barroso</b> , Some Optimal Design Problems with Perimeter Penalisation	<b>João-Paulo Dias</b> , The motion of the director field of a nematic liquid crystal
9:30 -09:55h	<b>Alessandro Morando</b> , On the existence and stability of two-dimensional compressible current-vortex sheets	<b>Jean-Baptiste Casteras</b> , Compactness of radial solutions to the Lin-Ni-Takagi equation in the asymptotically critical regime	<b>Christian Vergara</b> , Fluid-structure interaction problems in computational hemodynamics
10:00 -10:25h	<b>Daniele Cassani</b> , Limiting cases in Choquard type equations	<b>Simão Correia</b> , Stationary solutions to some Ginzburg-Landau equations	<b>Jorge Tiago</b> , Variational approaches in blood flow modeling
10:30h -10:55h	<b>Paolo Secchi</b> , Geometric optics for hyperbolic free boundary problems	<b>Francesca Dalbono</b> , Existence and non-existence of positive solutions for the critical p-Laplace equation in the ball	<b>Sergio Gomez</b> , High-order interpolatory/quasi-interpolatory serendipity virtual element method for semilinear parabolic problems
11:00h - 11:30h	<b>Coffee break (Room CES 124)</b>		
	<b>Chairman:</b> Christian Vergara	<b>Chairman:</b> Luís Sanchez	<b>Chairman:</b> Nicolas Van Goethem
11:30 – 11:55 h	<b>Leonard Monsaingeon</b> , Schrodinger meets De Giorgi: entropic interpolation in metric spaces	<b>Maurizio Garrione</b> , Asymptotic behavior of wave fronts in parameter-dependent Born-Infeld models	<b>Aldo Pratelli</b> , On the minimization of general energies with attractive-repulsive behaviour
12 h -12:25 h	<b>Maria Stella Gelli</b> , A MASS OPTIMIZATION PROBLEM WITH CONVEX COST	<b>Carlota Rebelo</b> , Predator-prey and competitive models with seasonality: an overview of recent results	<b>James Kennedy</b> , Unbounded spectral minimal partitions?
12:30 – 12:55 h	<b>Elisabetta Chiodaroli</b> , On wild initial data for the isentropic Euler system of gas dynamics	<b>Alessandro Margheri</b> , Fixed points for planar maps with multiple twists, with application to nonlinear equations with indefinite weight	<b>Hugo Tavares</b> , Yamabe systems, optimal partitions and nodal solutions to the Yamabe equation
13h – 14:30h	<b>Lunch (Room CES 129)</b>		
15h -18h	<b>Tour through Évora. Meeting point 15h: CES main cloisters square <a href="https://www.picndea22.uevora.pt/social-program/">https://www.picndea22.uevora.pt/social-program/</a></b>		
20:00 h	<b>Conference Dinner, Room CES 129</b>		

<b>Wednesday, 06/07/2022</b>			
	<b>Room CES 131</b>	<b>Room CES 115</b>	<b>Room CES 110</b>
	<b>Chairman:</b> Alessandro Morando	<b>Chairman:</b> Ana Leonor Silvestre	Chairman: James Kennedy
9:00h - 09:25h	<b>Luigi C. Berselli</b> , Pseudo monotone operators and the unsteady rotational Smagorinsky model	<b>Alessandro Russo</b> , Current status and perspectives of the Virtual Element Method	<b>Chiara Leone</b> , GRADIENT ESTIMATES FOR AN ORTHOTROPIC NONLINEAR DIFFUSION EQUATION
9:30 -09:55h	<b>Paolo Gidoni</b> , A topological degree theory for rotating solutions of planar systems	<b>Carlo Lovadina</b> , Virtual Element Methods for Elasticity Problems in mixed form	<b>Makson Santos</b> , Fractional Sobolev regularity for fully nonlinear elliptic equations
10:00 -10:25h	<b>Hermengildo Borges de Oliveira</b> , Existence results for a turbulence k–epsilon model governing flows through permeable media	<b>L. Beirão da Veiga</b> , Equilibrium analysis of an immersed rigid leaflet with virtual elements	<b>Pêdra Andrade</b> , Regularity theory for the parabolic normalized p-Laplace equation
10:30h -10:55h	<b>André Guerra</b> , Quasiconvexity and the norms of the Beurling–Ahlfors transform	<b>Marília Pires</b> , Artificial Stress Diffusion in Numerical Simulations of Viscoelastic Fluids Flows	
11:00h -11:30h	<b>Coffee break (Room CES 124)</b>		
11:30h	<b>Closing (Auditorium)</b>		
	Chairman: Hugo Beirão da Veiga		
	<b>Giuseppe Buttazzo</b> , Remembering Ennio De Giorgi		
13 h	<b>Lunch (Room CES 129)</b>		