Workshop on **Hyperbolic Differential Equations, Calculus of Variations and Applications**

July 17-19, 2024, at Foundation for Research and Technology – Hellas (FORTH) in «Costas Fotakis» Meeting Room of main building (1st floor)

Organizers: Charalambos Makridakis, Athanasios Tzavaras

Schedule

Wednesday July 17th

9:25 – 9:30	Opening Remarks
9:30 – 10:05	Constantine Dafermos, Brown University Zero Relaxation Limit in BV
10:10 – 10:45	Nicholas Alikakos, Univ. of Athens Multi-phase minimizers for the Allen-Cahn system on the plane
10:50 – 11:30	Coffee Break
11:30 – 12:05	Agissilaos Athanassoulis, Univ. of Dundee Why 99.8% of the time there are no Rogue Waves in the North Atlantic (The answer is Landau damping)
12:10 – 12:45	Athanasios Chatzikaleas, Universitat Münster Islands of stability and periodic waves in the Anti-de Sitter spacetime
12:50 – 2:30	Lunch Break
12:50 – 2:30 2:30 – 3:05	Cleopatra Christoforou, Univ. of Cyprus On hyperbolic balance laws with application to self-organized systems of Euler-type
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2:30 - 3:05 3:10 - 3:45 3:50 - 4:30	Cleopatra Christoforou, Univ. of Cyprus On hyperbolic balance laws with application to self-organized systems of Euler-type Grigorios Fournodavlos, Univ. of Crete Global stability of cosmological fluids with extreme tilt Coffee Break Myrto Galanopoulou, Univ. of Sussex

Thursday July 18th

9:30 – 10:05	Panagiota Daskalopoulos, Columbia University Mean Curvature flow Singularities
10:10 – 10:45	Stefanos Georgiadis, KAUST and TU Vienna Renormalized solutions for the Maxwell-Stefan system with an application to uniqueness of weak solutions
10:50 – 11:20	Coffee Break
11:20 – 11:55	Emmanouil Georgoulis, Herriot Watt Univ and Natnl Techn. Univ of Athens Hypocoercivity-preserving Galerkin discretisations of kinetic equations
12:00 – 12:35	Ioannis Giannoulis, Univ. of Ioannina Higher order corrections to the approximation of the 2d dual semi-geostrophic equation by the Euler vorticity equation
12:40 – 2:40	Lunch Break
12:40 – 2:40 2:40 – 3:15	Lunch Break Konstantinos Koumatos, Univ. of Sussex On the role of quasiconvexity in dynamics
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2:40 – 3:15	Konstantinos Koumatos, Univ. of Sussex On the role of quasiconvexity in dynamics Dionyssis Mantzavinos, Univ. of Kansas
2:40 – 3:15 3:20 – 3:55	Konstantinos Koumatos, Univ. of Sussex On the role of quasiconvexity in dynamics Dionyssis Mantzavinos, Univ. of Kansas Initial-boundary value problems for nonlinear Schrödinger-type equations

Friday July 19th

9:30 – 10:05	Manoussos Grillakis, Univ. of Maryland On a model for relativistic strings
10:10 – 10:45	Angeliki Menegaki, Imperial College London On linearisation around singular Rayleigh-Jeans for the 4-waves kinetic equation
10:50 – 11:20	Coffee Break
11:20 – 11:55	Katerina Nik, T.U. Delft Surface morphoelasticity
12:00 – 12:35	Marios Stamatakis, Univ. of Ioannina A generalization of Young measures for the Hydrodynamic limit of condensing Zero Range Processes
12.40– 1.15	Phoebus Rosakis, Univ. of Crete Towards new field theories for fracture, plasticity and cancer growth, through nonconvex calculus of variations, bifurcation theory for PDE, and modelling in nonlinear elasticity.
1:20 – 2:40	Lunch Break
1:20 – 2:40 2:40 – 3:15	Lunch Break Andreas Vikelis, Univ. of Vienna Measure-valued solutions for non-associative finite plasticity
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2:40 – 3:15	Andreas Vikelis, Univ. of Vienna Measure-valued solutions for non-associative finite plasticity Konstantinos Zemas, Univ. of Bonn
2:40 – 3:15 3:20 – 3:55	Andreas Vikelis, Univ. of Vienna Measure-valued solutions for non-associative finite plasticity Konstantinos Zemas, Univ. of Bonn Stability aspects of the Möbius group of Sn-1