

XX International Workshop on Instabilities and Nonequilibrium Structures (INES)

PROGRAM

Monday 7 October			
9 :00-10 :00	Opening remarks (UniCA, Idex, P. Coulet, G. Huyet, M. Giudici)		Chaired by S. Turitsyn
		14:00-14:35	CHEMBO Advances on pattern formation in nonlinear microresonators
	Chaired by M. Giudici	14:35-15:00	GIACOMOTTI Non-Hermitian zero modes in a nanophotonic trimer
10:00-10:25	TURITSYN Asymmetric optical nonlinear pulses	15:00-15:25	BRES Optical poling in waveguides and resonators: dynamics of self-organized nonlinear grating inscription
10:25-10:50	SCALLY A fully optical neural network based on a multimode semiconductor laser	15:25-15:50	RAINERI InP on Silicon Spiking Nanolasers
10:50-11:15	COFFEE BREAK	15:50-16:15	COFFEE BREAK
11:15-11:50	VALDIVIA Complexity in city traffic		Chaired by G. Genty
11:50-12:15	COULIBALY Spatiotemporal Chaos in Kerr Resonators: An Anatomy	16:15-16:40	JACQUOT Computer micro-vision and deep holographic Microscopy
12:15-12:40	GENTY Real-time spatial field measurement in multimode fibers	16:40-17:05	TREDICCE Garden of Bifurcating Paths in a Solid State Laser
12:40-14:00	LUNCH	17:05-17:30	ROJAS Cell migration in killifish epiboly and single-cell growth in <i>C. Albicans</i>
		17:30-17:50	KOSTET Vectorial dark dissipative solitons in Kerr resonators

Tuesday 8 October			
	Chaired by : G.L. Lippi		Chaired by G. Huyet
9:00-9:25	MUSSOT Frequency combs in fiber Fabry Perot resonators	14:00-14:35	DURING From active actuation to collective motion: the many faces of an active solid model
9:25-10:00	LAROZE Characterization of Faraday patterns, spatiotemporal chaos and Chimera states in parametrically driven dissipative systems	14:35-15:00	BARLAND Can some semiconductor lasers operate as Bose Einstein condensates?
10:00-10:25	LEO Temporal cavity solitons in lasers and optical parametric oscillators	15:00-15:25	VLADIMIROV Modeling dispersive nonlinear optical cavities using delay differential equations
10:25-10:50	STALIUNAS Light Trapping in Non-Hermitian Thin Films	15:25-15:50	SONNINO The Golden Ratio: Deciphering the Symmetry of Extreme Black Holes
10:50-11:15	COFFEE BREAK	15:50-16:15	COFFEE BREAK
11:15-11:50	CLERC Localized dissipative vortices in chiral nematic liquid crystal cells		Chaired by M. Clerc
11:50-12:15	BARBAY Nonlinear amplification and chaos synchronization in driven nano-mechanical resonators	16:15-16:40	AMIRANASHVILI Role of modulation instability in numerical analysis
12:15-12:40	SKRYABIN Multimode and multi-octave chi-2 photonics	16:40-17:05	TLIDI Light bullets and extreme waves in Kerr resonators
12:40-14:00	LUNCH	17:05-17:35	COULLET: Inflection lines of wavefronts and generalized rainbow IOOSS: Heteroclinic and orthogonal walls
		17:35-17:55	SOUPART Optical pattern turbulence in the liquid crystal light-valve with feedback

Wednesday 9 October			
	Chaired by : M. Tlidi		Chaired by F. Raineri
9:00-9:25	ARGENTINA Optimum control strategies for maximum thrust production in underwater undulatory swimming	14:00-14:25	LIPPI System size and dynamics: a laser-based illustration
9:25-10:00	RICA Some thoughts on finite-time singularity solutions of the Euler equations: a simpler nonlocal approximation	14:25-14:50	MARCONI Generation, manipulation and spectral analysis of laser temporal localized structures
10:00-10:25	FRISCH Vortex nucleation in a superfluid in a sinuous channel	14:50-15:15	GARNACHE Non-linear dynamics of multimode semiconductor laser: phase instability and route to single state regime
10:25-10:50	MICHEL Fluids of light in disordered environment	15:15-15:35	RAUFASTE Shape and dynamics of menisci at the contact with soap films
10:50-11:15	COFFEE BREAK	15:35-15:55	BEC : Harnessing swarms to optimize the displacement of interacting micro-swimmers
11:15-11:50	POMEAU A case of instability and non equilibrium in everyday world		Concluding Remarks
11:50-12:15	NAZARENKO Universal scaling in evolving and stationary wavy turbulence		
12:15-12:40	KRSTULOVICS 2D classical and quantum turbulence and the fluctuations of velocity circulation		