Workshop on Dynamical Systems and Applications

PROGRAM

TUESDAY 10 Dec.

	TOLOBAT TO DCC.	
	<u>Chair</u> : Bruno Escribano	
9:50-10:00	Opening	
10:00-10:50	Julyan Cartwright, CSIC-Universidad de Granada, Spain	
	The Belly Phase: Geometric Mixing, Peristalsis, and the Geometric	
	Phase of the Stomach	
10:55-11:45	David Chillingworth, University of Southampton, UK	
	Log-rolling and kayaking: periodic dynamics of a nematic liquid	
	crystal in a shear flow	
Coffee Break		
12:00-12:50	Dimitri Breda, University of Udine, Italy	
	From delay differential equations to ordinary differential equations	
	<u>Lunch</u>	
	<u>Chair :</u> Julyan Cartwright	
14:30-15:20	Jesús Palacián, Public University of Navarre, Spain	
	Transition state geometry near higher-rank saddles in phase space	
15:25-15:55	Riccardo Jadanza, Politecnico di Torino, Italy	
	Linear stability of relative equilibria in n-body-type problems	
<u>Coffee Break</u>		
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16:10-16:40	Michael Stich, Aston University, UK	
	Control of pattern formation by time-delay feedback with global and	
40.45.47.45	local contributions	
16:45-17:15	Elisabete Alberdi, UPV/EHU, Spain	
	The integration of stiff systems of ODEs using multistep methods	
	Scientific discussions with a glass of wine	
	Ocientine discussions with a glass of with	

WEDNESDAY 11 Dec.

Chair: Roberto Castelli

9:30-10:20 10:25-11:15	Elena Fantino, Institut d'Estudis Espacials de Catalunya, Spain Powered invariant manifold transfers between libration point orbits in the Sun-Earth-Moon system Holger Teismann, Acadia University, Canada A semi-classical take on quantum control	
Coffee Break		
11:35-12:25	Diego González, CNR-IMM, University of Bologna, Italy A Mathematical Model of the Genetic Code, the Origin of Protein Coding, and the Ribosome as a Dynamical Molecular Machine	
12:30-13:00	Simone Rusconi, Basque Center for Applied Mathematics, Spain Study on Controlled Radical Polymerization	
<u>Lunch</u>		
	<u>Chair :</u> Holger	
	Teismann	
14:30-15:00	Domagoj Vlah, University of Zagreb, Croatia Fractal properties of generalized Bessel functions	
15:05-15:35	Matthieu Vanicat, ENS-Cachan, France Rigorous continuation in a nutshell	
15:40-16:10	Maxime Breden, ENS-Cachan, France Rigorous computation of a bifurcation diagram for a reaction	
16:15-16:45	diffusion system Roberto Castelli, Basque Center for Applied Mathematics, Spain Computing tangent bundle for hyperbolic periodic orbits of system of ODEs	

Coffee and discussions

<u>P.S.</u> Lunches (with *Pintxos*) are served in BCAM and offered to speakers and organizers