

Workshop - 'Chaos Indicators, Phase Space and Chemical Reaction Dynamics'

4th – 6th May 2020

Schedule of talks

Workshop link - <https://bluejeans.com/233350403>

Day 1 – Monday 4th May 12pm - 2pm (UK Time)

12.00 - 12.10	Introduction	
12.10 - 12.40	R. MacKay - (University of Warwick, Coventry)	"A method to establish regions without invariant tori of given class and application to the three-body problem "
12.40 - 13.10	T. Komatsuzaki - (Hokkaido University, Japan)	"Geometrical aspect of chemical reaction dynamics in thermally fluctuating environments and Future Directions"
13.10 - 13.40	S. Keshavamurthy - (Indian Inst of Technology Kanpur, India)	"On relating the Arnold web with the dynamics of unimolecular dissociation reactions"

Day 2 – Tuesday 5th May 12pm - 2pm (UK Time)

12.00 - 12.10	Introduction	
12.10 - 12.40	A. Mancho - (Instituto de Ciencias Matemáticas, CSIC, Madrid)	"Phase space structures in 3D geophysical flows: the West Africa Monsoon case."
12.40 - 13.10	V. J. Garcia Garrido - (Universidad de Alcala, Spain)	"Revealing the Phase Space of Open Hamiltonians with Variable Time Lagrangian Descriptors"
13.10 - 13.40	Ch. Skokos - (University of Cape Town, South Africa)	"The Smaller (SALI) and the Generalized (GALI) Alignment Index methods of chaos detection"

Day 3 – Wednesday 6th May 12pm - 2pm (UK Time)

12.00 - 12.10	Introduction	
12.10 - 12.40	S. Farantos - (University of Crete, Greece)	"Non-Linear Hamiltonian Thermodynamics and Chemical Kinetics"
12.40 - 13.10	P. Patsis – (RCAAM of Academy of Athens, Greece)	"The phase-space structure at the radial and vertical 2:1 resonance region of disc galaxy models".
13.10 - 13.40	P. Cincotta - (Universidad Nacional de La Plata, Argentina)	"The Mean Exponential Growth factor of Nearby Orbits (MEGNO)"