

## Session 15, Dynamical systems

Wednesday 18, Room 204

- 15:30–16:00 **On the inverse integrating factor and its applications**  
Jaume Llibre Saló
- 16:00–16:30 **The cyclicity of the elliptic segment loops of reversible quadratic Hamiltonian systems under quadratic perturbations**  
Chengzhi Li
- 16:30–17:00 **Maximum number of limit cycles through Bendixson-Dulac criterion**  
Armengol Gasull Embid
- 17:30–18:00 **Applications of bounded homeomorphisms**  
David Richeson
- 18:00–18:30 **Patterns and minimal dynamics for graph maps**  
John Guaschi
- 18:30–19:00 **Symbolic dynamics from arbitrary matrices**  
Jim Wiseman

Thursday 19, Room 204

- 11:30–12:00 **Results about the unfolding of the nilpotent singularity of codimension three**  
Santiago Ibáñez Mesa
- 12:00–12:30 **Persistence of homoclinic orbits for billiards and twist maps**  
Sergey Bolotin
- 12:30–13:00 **High frequency perturbations of classical 1-DOF Hamiltonian systems with a parabolic fixed point**  
Ernest Fontich Julià
- 13:00–13:30 **Cycles and systems of iterated functions**  
Lorenzo J. Diaz
- 15:30–16:00 **Invariant manifolds in quasiperiodic systems: theory, computation and applications**  
Alejandro Haro Provinciale
- 16:00–16:30 **On the Hamiltonian-Hopf bifurcation**  
Angel Jorba
- 17:30–18:00 **Minimal subsets of a class of convex monotone skew-product semiflows**  
Rafael Obaya García
- 18:00–18:30 **Sets of periods for tree maps: a characterization**  
Lluís Alsedà Soler

Friday 20, Room 204

- 10:30–11:00 **A geometric mechanism for diffusion in Hamiltonian systems overcoming the large gap problem**  
Amadeu Delshams
- 11:00–11:30 **Geometric mechanisms for diffusion in Hamiltonian systems**  
Rafael de la Llave
- 11:30–12:00 **Functional differential equation on a Banach space**  
Mustapha Yebdri
- 12:00–12:30 **Quantitative estimates on the size of Herman rings of the complex standard family using geometrical methods**  
Jordi Villanueva Castelltort
- 12:30–13:00 **Accessible points in the Julia set for stable exponentials**  
Mónica Moreno Rocha
- 13:00–13:30 **Parametrized dynamics of the Weierstrass elliptic function**  
Lorelei Koss

Saturday 21, Room 204

- 09:30–10:00 **Graphs of NMS flows on  $S^3$  without heteroclinic trajectories**  
Pura Vindel
- 10:00–10:30 **On Newhouse's phenomenon**  
Vadim Kaloshin
- 10:30–11:00 **Asymptotic randomization of sofic shifts by linear cellular automata**  
Marcus Pivato