



# VI Congreso de Jóvenes Investigadores de la RSME

## Sistemas Dinámicos y Ecuaciones Diferenciales

**Coordinadores: Cristina Lois y José Manuel Uzal**

**Jueves 9 de febrero, aula 212**

Moderadora: Cristina Lois Prados

10:00 *Attractor for non-autonomous Lotka-Volterra cooperative systems*, Juan García-Fuentes

10:30 *Contributions to the classification of the global dynamics of polynomial differential systems*, Érika Diz-Pita

Moderadores: Cristina Lois Prados y José Manuel Uzal Couselo

11:30 *Tipping phenomena on nonautonomous single-species population models subject to Allee effect*, Jesús Dueñas

12:00 *Planar Hamiltonian systems: Index theory and applications*, Eduardo Muñoz-Hernández

12:30 *Applications for  $L_3$  in celestial mechanics: from mathematical modelling to real-system comparisons*, Begoña Nicolás

13:00 *The Hydrogen atom in a circularly polarized microwave field: Trajectories from and to the nucleus*, Óscar Rodríguez

**Viernes 10 de febrero, aula 212**

Moderador: José Manuel Uzal Couselo

10:00 *Bursting neurons: bifurcation structure of spike-adding processes in the Hindmarsh-Rose model*, Lucía Pérez

10:30 *Invariant manifolds of vector fields with parabolic invariant tori*, Clara Cufí-Cabré

Moderadora: Cristina Lois Prados

11:30 *Structure of attractors for a nonlocal Chafee-Infante problem*, Rubén Caballero

12:00 *A link between difference equations and delay differential equations*, Sebastián Buedo-Fernández



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