



# VI Congreso de Jóvenes Investigadores de la RSME

## Recent advances in local and nonlocal PDE's

**Coordinadores: Ángel Arroyo, Juan Carlos Felipe y Tomás Sanz**

**Miércoles 8 de febrero, aula 206**

Moderador: Ángel Arroyo

10:00 *Concentration versus Simplification in Aggregation-Diffusion Equations*, David Gómez-Castro

10:30 *Concentration phenomena arising in Aggregation Fast-Diffusion equations*, Alejandro Fernández-Jiménez

Moderador: Ángel Arroyo

11:30 *A sharp Hardy inequality in fractional Sobolev spaces*, Francesca Bianchi

12:00 *Multiple solutions for the nonlocal Liouville equation in  $R$* , Antonio J. Fernández

12:30 *Bound and ground states for a family of singular systems in  $R^N$* , Rafael López-Soriano

13:00 *Bernstein method for nonlocal operators*, Marvin Weidner

**Jueves 9 de febrero, aula 206**

Moderador: Juan-Carlos Felipe-Navarro

10:00 *Nonlocal concave-convex critical problems with mixed boundary conditions*, Alejandro Ortega

10:30 *Positive solutions to critical competitive systems in low dimension*, María Medina

Moderador: Juan-Carlos Felipe-Navarro

11:30 *Self-similar solutions for the generalized surface quasi-geostrophic equation*, Claudia García

12:00 *An interior regularity result for the MEMS problem*, Renzo Bruera

12:30 *Global regularity of stable solutions to semilinear equations*, Íñigo U. Erneta

13:00 *A new class of double phase variable exponent problems and a Nehari manifold approach*, Ángel Crespo-Blanco



universidad  
de león



Real Sociedad  
Matemática Española



## VI Congreso de Jóvenes Investigadores de la RSME

Moderador: Tomás Sanz-Perela

- 17:00 *Evolution driven by the infinity fractional Laplacian*, Félix del Teso
- 17:30 *The KPP diffusion-reaction problem in the hyperbolic space*, Irene González
- 18:00 *Blowing up solutions to elliptic problems with natural growth in the gradient*, Salvador López
- 18:30 *Generic regularity of free boundaries for the thin obstacle problem*, Damià Torres



universidad  
de león



Real Sociedad  
Matemática Española