



22—24 de Septiembre de 2025

XIX Workshop de Jóvenes Investigadores

Lunes 22:

9:30-10:00: Recepción

10:00-10:15: Inauguración

10:15-11:15: Richard M. Aron: *Some comments about lineability and non-lineability*

11:15-12:00: Manuel González: *Igusa zeta functions of hyperplane arrangements and wonderful models*

DESCANSO

12:30-13:15: Daniel Luis Rodríguez: *Almost continuous Sierpiński-Zygmund functions: Existence, lineability, and set-theoretic contexts*

13:15-13:45: Natalia Briñas: *Hybrid methods for multiscale reaction-diffusion models of tumor growth*

13:45-14:15: Isabel María Moreno: *Bohnenblust–Hille inequality and applications in learning theory*

DESCANSO

16:00-16:30: Alejandro Calleja: *Hodge structures on character varieties*

16:30-17:00: Pablo Sánchez: *Coherence of group pairs*

17:00-17:30: Esther Jerez: *Classification of functional Gaussian data with random trends*

Martes 23:

10:00-11:00: Pablo Portilla: *Searching for vanishing cycles in plane curves*

11:00-11:45: Juan Carlos Sampedro: *Path integration on Riemannian manifolds*

DESCANSO

12:15-13:00: Moisés Herradón: *The Zariski-Van Kampen theorem*

13:00-13:30: Gabriel Abánades: *Degenerations of Hodge structures via period mappings*

13:30-14:00: Fermín González: *Membrane systems with asymmetric Kedem-Katchalsky boundary conditions*

DESCANSO

16:00-16:30: Iván Chércoles: *Spaces of left-preorders on groups*

16:30-17:00: Claudia Muñoz: *The NEC group uniformization of extremal hyperbolic surfaces*

17:00-17:30: Lucía Baena: *Moduli spaces in Algebraic Geometry*

Miércoles 24:

10:00-11:00: Enrique Arrondo: *On the number of equations defining an algebraic subvariety*

11:00-11:45: Jesús Llorente: *The Takagi function and the shadowing property*

DESCANSO

12:15-12:45: Pablo Hidalgo: *Nonlinear and nonhomogeneous overdetermined problems*

12:45-13:45: Adrián Ubis: *Number of lattice points in a ball*

13:45-14:00: Clausura

Organizado por: Universidad Complutense de Madrid (UCM), Instituto de Matemática Interdisciplinar (IMI), Universidad Carlos III de Madrid (UC3M) y Universidad Autónoma de Madrid (UAM).

Comité organizador: Enrique Arrondo (UCM), Pedro Daniel González (UCM), Jesús Llorente (UCM), Carlos Mora (UAM), José Manuel Rodríguez (UC3M) y Juan B. Seoane (UCM).

Las charlas serán en el Aula Miguel de Guzmán de la Facultad de Matemáticas de la Universidad Complutense de Madrid