



Universidad
Carlos III de Madrid



23—25 de Septiembre de 2024

XVIII Workshop de Jóvenes Investigadores

Lunes 23:

9:30-10:00: Recepción

10:00-10:15: Inauguración

10:15-11:15: Domingo García: *Farkas' Lemma in the non-linear setting*

11:15-12:00: Javier Cueto García: *A Whole New Nonlocal World*

12:00 - Café

12:30-13:00: Rodrigo De Pool: *Homomorphisms between mapping class groups*

13:00-13:30: Laura Sánchez-Pascuala Dones: *Boundedness of multilinear operators at the end-points with extrapolation techniques*

16:00-16:45: Baldur Sigurdsson: *The topology of complex plane curve singularities*

16:45-17:15: Rubén Izquierdo: *Coisotropic reduction in classical field theories*

17:15-17:45: Ángel Molina Navarro: *Moduli and varieties of group representations*

Martes 24:

10:00-11:00: María Pe Pereira: *Moderately discontinuous algebraic topology*

11:00-11:45: Alejandra Garrido: *Plays in the forest: groups acting on trees*

11:45 - Café

12:15-12:45: Niel Van Buggenhout: *Rational functions in quantum computing*

12:45-13:15: Francisco Javier Larcada: *Superreflexive spaces*

16:00-16:30: Laura Sáenz Díez: *Folner-type approximations of unbounded operators motivated by Quantum Mechanics*

16:30-17:00: Víctor Soto-Larrosa: *Zero dynamics and hypergeometric representation of Sobolev-type discrete q -Hermite orthogonal polynomials*

17:00-17:30: Laura González Bravo: *A categorical approach to classical and quantum information geometry*

Miércoles 25:

10:00-11:00: Ana María Bravo: *Order functions and applications to resolution of singularities*

11:00-11:30: María Teresa Arias: *Scattering transform on non abelian finite groups*

11:30-12:00: Carlos Fuertes Morán: *A priori estimates and Harnack inequalities for fractional porous medium type equation*

12:00 - Café

12:30-13:00: Iván Caamaño: *Metric differentiability of Lipschitz mappings in metric measure spaces*

13:00-14:00: Nuria Torrado Robles: *Reliability of coherent systems: Design and stochastic comparisons*

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), Jesús Llorente (UPM), Carlos Mora Corral (UAM), Alejandro Quintero Roba (URJC), 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