

21—23 de Septiembre de 2026

XX Workshop de Jóvenes Investigadores

Lunes 21:

9:30-10:00: Recepción

10:00-10:15: Inauguración

10:15-11:15: Vicente Muñoz: *Finite sets and submonoids are mapping degree sets*

11:15-11:45: Nicole Lucía Ore: *Khovanov homology of knots and links*

DESCANSO

12:15-13:00: Pablo Portilla: *Telling knots apart: from the Alexander polynomial to link Floer homology*

13:00-13:30: Hugo Labella: *Algebraic stacks and good moduli spaces*

13:30-14:00: Enrique Barroso: *Analysis of Solutions to Non-Autonomous Cauchy Problems with Time-Dependent Domains: An Application to the MGT Model*

DESCANSO

16:00-17:00: María Soria-Carro: *Segregation phenomena and free boundaries*

17:00-17:30: Pablo Páez: *Rapid mixing for Gibbs measures in Riemannian manifolds*

17:30-18:00: Laura Castilla: *Robustness of spectral gap undecidability*

Martes 22:

10:00-11:00: Soledad Le Clainche: *Physics-Guided Reduced-Order Learning for Fast and Reliable Fluid Flow Prediction for Industrial Applications*

11:00-11:45: Rosalío Reyes: *λ -Forman--Ricci Curvature on Graphs*

DESCANSO

12:15-13:00: Gabriel Riutort: *Gaussian processes via Hilbert space approximation and multi-group Bayesian Gaussian process models*

13:00-13:30: Javier Minguillón: *Pointwise convergence of Schrödinger solutions along highly tangential curves*

13:30-14:00: Diana Zomeño: *Quantization as a functor: from time evolution to TQFTs*

DESCANSO

16:00-16:30: Laura Sáenz: *Superselection sectors of lattice gauge theories: from $\mathbb{Z}^2$ to lattices with boundary*

16:30-17:00: Ander Sánchez: *Mathematics applied to cardiovascular health*

17:00-17:30: Itahisa Barrios: *Pohozaev Identity for the Spectral Fractional Laplacian*

17:30-18:00: Sara Ghivarello: *How Pluralistic Ignorance and Social Norms Shape Public Support for Road Pricing*

Miércoles 23:

10:00-11:00: Troy William Pettitt: *Classification of semilinear elliptic equations in unbounded domains*

11:00-11:45: Edwin León: *The Bernstein-Sato polynomial and the annihilator of a rational function*

DESCANSO

12:15-12:45: Francisco López: *Derived Categories and Functors in Algebraic Geometry*

DESCANSO

15:15-16:00: **Roundtable session: PhD opportunities**

16:00-16:30: Alicia García-Masaraque: *POD-ROM approximations for out of sample parameters*

16:30-17:00: María Jiménez: *Theory for groupoid equivariant neural networks*

17:00-17:30: Raúl Enrique Pariente: *Free Banach Lattices*

17:30-18:00: Rodrigo Martín: *Advances on decisional attacks against PLWE based on polynomial roots*

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

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

Asistencia gratuita. Página web: <https://blogs.mat.ucm.es/mmatavan/>

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