FisEs'26

PROGRAMA AMPLIADO

Miércoles 14 de Octubre

14.00-15.00 **Registro**

15.00-15.15 **Presentación**

15.15-16.00 **Juan M. R. Parrondo**
¿Es objetiva la irreversibilidad?

16.00-16.15 **Verónica Sanz-Arqué**
Stochastic resetting with limited information.

16.15-16.30 **Beatriz Seoane**
RBMs, powerful modeling machines

16.30-17.00 **Coffee break**

17.00-18.00 **Poster Session 1**

18.00-18.45 **Marta Ibañes**
Resource limitation and Criticality in Developmental Pattern Formation

18.45-19.00 **Gemma Bel-Bordes**
Detecting Shared Functional Groups of Neurons Across Connectomes

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Nota: los títulos de las contribuciones se han mantenido en el idioma en el que se han recibido. Este idioma puede coincidir o no con el idioma en el que se imparte la charla.

Last Update: 25/09/2026 18:19

Jueves 15 de Octubre

09.00-09.45 **Susanna Manrubia**
Universality of hierarchical organization in viral populations

09.45-10.00 **Jorge Hidalgo**
Delayed reproduction in fluctuating environments

10.00-10.15 **José Ángel Capitán**
Robust coexistence in ecological communities dominated by competition

10.15-10.30 **Adrián Gutiérrez-Arroyo**
The role of space in explaining macroecological patterns of microbial abundance

10.30-11.00 **Simona Olmi**
The π-transition: A tipping point for the Kuramoto model with triadic repulsive interaction

11.00-11.30 **Coffee break**

11.30-12.00 **Alberto Antonioni**
Synchronization as a Social Dilemma: From Complex Networks to Mobile Populations

12.00-12.15 **Miguel A. González-Casado**
Detailed balance from social rules: a model for the evolution of social relationships

12.15-12.30 **Giovanni Palermo**
Beyond the Wisdom of the Crowd: How Network Topology Distorts Collective Perception

12.30-12.45 **Jaume Llabrés**
Reducibility of higher-order to pairwise interactions: Social impact models on hypergraphs

12.45-13.00 **Mar Grande**
Leveraging Complex Networks for Portfolio Optimization and Risk Management in Finance

13.00-14.30 **Lunch**

14.30-15.15 **Álvaro Sánchez**
The latent simplicity of ecological interactions

15.15-15.30 **Alberto Pascual-García**
Towards the identification of principles for the design of stable microbial communities

15.30-15.45 **Xavier Viader-Godoy**
Learning and adaptive dynamics in bacteria under precise microfluidic control

15.45-16.00 **María Jinxue García-Pantaleón**
Information dynamics and learning in gene regulatory networks

16.00-16.30 **Coffee break**

16.30-17.30 **Poster Session 2**

17.30-18.00 **Pablo Sartori**
Thinking matter: multifarious systems in and out of equilibrium

18.00-18.15 **Jordi Faraudo**
Statistical physics tools to improve cancer immunotherapy

Viernes 16 de Octubre

09.00-09.45 **Pedro Tarazona**
La Mecánica Cuántica como un problema de Física Estadística

09.45-10.00 **David González Méndez**
Kinetic theory of transport and segregation in confined granular mixtures

10.00-10.15 **Manuel Mayo**
Collisional Cooling Induces Phase Separation Of Active Particles

10.15-10.30 **Marta Grasa**
Stronger is Slower: Decoupling speed and pushing in evacuations through a bottleneck

10.30-11.00 **Elvira Guardia**
Fingerprints of structural transitions in liquid water at high temperatures and pressures

11.00-11.30 **Coffee break**

11.30-11.45 **Iñaki Echeverría-Huarte**
Pedestrian rotations may render obstacles ineffective in competitive evacuations

11.45-12.00 **Miguel Ibáñez**
Memory-inspired acceleration of electro-orientation in nanoparticle suspensions

12.00-13.00 **Tesis '*Gran Reserva*'**
Con la inestimable participación de: Javier Brey, Albert Díaz-Guilera, Miguel Rubí, Maxi San Miguel, Anxo Sánchez, José María Sancho.

13.00-14.30 **Lunch**

14.30-15.00 **Virginia Domínguez-García**
Using Complex Networks to Understand Ecological Communities

15.00-15.15 **Adolfo Alsina**
Robust bilateral symmetry in the zebrafish retina emerges from stochastic differentiation dynamics

15.15-15.30 **Javier Buceta**
Growth-induced buckling as a mechanochemical switch for patterning and division-site memory in bacterial filaments

15.30-15.45 **María José Franco Oñate**
Active wetting transition in cellular aggregates

15.45-16.45 **Poster Session 3**

16.45-17.15 **Coffee break**

17.15-17.30 **Javier Aguilar**
The Limits of Inference in Complex Systems: When Stochastic Models Become Indistinguishable

17.30-17.45 **Silvia N. Santalla**
Beyond pairs: higher-order entanglement hyperlinks

17.45-18.15 **Bartolo Luque**
La emergencia de vida compleja fue el resultado inevitable de una transición de fase algorítmica

18.15-18.30 **Entrega de premios y clausura**