

# XIX GISC WORKSHOP

Centro Nacional de Biotecnología, January 20th 2023

TIME	Speaker	Institution	Title
9:50-10:00			Welcome and presentation
10:00-10:30	Ricardo Gutiérrez	UC3M	Non-equilibrium criticality in the synchronization of oscillator lattices
10:30-10:45	Iván Álvarez Domenech	UNED	Shape fluctuations in random balls
10:45-11:00	Pablo Rodríguez López	URJC	Twister Bilayer Graphene at magic angles and Casimir effect
11:00-11:30			<i>Coffee</i>
11:30-12:00	José Cuesta	UC3M	La evolución no ve los mejores diseños... pero no importa
12:00-12:30	James Pelletier	CNB	Relating genotype and phenotype during cell division in a genomically minimal cell
12:30-12:45	Jose Manuel Camacho Mateu	UC3M	Species interactions reproduce abundance correlations in microbial communities
12:45-13:00	Iker Atienza Diez	CNB	Vaccination strategies in structured populations under partial immunity and reinfection
13:00-15:00			<i>Lunch (not provided)</i>
15:00-15:30	Jacobo Aguirre	CAB	On how to describe the emergence of interstellar molecular complexity with a network model... and get astrochemists (at least a little) interested
15:30-16:00	Elena Díaz García	UCM	Biosensors based on upconversion nanoparticles
16:00-16:15	Olga Arroyo Gascón	ICMM	Persistence of symmetry-protected Dirac points in topological crystalline insulator SnTe
16:15-16:30	Juan Ozaita Corral	UC3M	Human subjects do not know their centrality in social networks
16:30-17:00			<i>Coffee</i>
17:00-17:30	Juan Manuel Rodríguez Parrondo	UCM	Two notes on the foundations of statistical mechanics: objectivity and the origin of giant fluctuations
17:30-17:45	Jorge Tabanera-Bravo	UCM	Information and Thermodynamics in the nanoscale: from Landauer's principle to the information fuelled engine
17:45-18:00	C. Miguel Barriuso Gutiérrez	UCM	Simulating Microswimmers Under Confinement With Dissipative Particle (hydro)Dynamics
18:00-18:15	Diego Escribano	UC3M	Free-energy density functional for Strauss's model of transitive networks (applied to social networks)
18:15-18:20			Wrap-up and goodbye