

## Mini-cursos

Los tres días de mini-cursos tendrán lugar en la Universidad Nacional, Facultad de Ciencias, Auditorio Juan Herkrath.

Hora	Lunes 28	Martes 29	Miércoles 30
8:30 – 10:00	Inscripciones e Inauguración	Structure, Dynamics and Emergence in Complex Networks	Thermodynamics of Information
10:00 – 10:30	Coffee Break		
10:30 – 12:00	Thermodynamics of Information	Thermodynamics of Information	Exact Analysis 1D KPZ Equation Discrete Models
12:00 – 2:00	Almuerzo (Libre)		
2:00 – 3:30	Exact Analysis 1D KPZ Equation Discrete Models	Exact Analysis 1D KPZ Equation Discrete Models	Tarde Libre
3:30 – 4:00	Coffee Break		
4:00 – 5:30	Structure, Dynamics and Emergence in Complex Networks	Structure, Dynamics and Emergence in Complex Networks	

### Thermodynamics of Information

**Juan Manuel R. Parrondo**

*Universidad Complutense de Madrid  
Spain*

### Exact Analysis of the 1D KPZ Equation and Discrete Models

**Tomohiro Sasamoto**

*Tokyo Institute of Technology  
Japan*

### Structure, Dynamics and Emergence of Complex Networks

**Jesús Gómez-Gardeñes**

*Universidad de Zaragoza  
Spain*

## Conferencias y presentaciones de trabajos

Los dos días de conferencias y presentaciones de trabajos tendrán lugar en la Universidad de los Andes.

### Jueves 31 de Agosto

Hora	Expositor	Título
8:30-9:00	Inscripciones	
9:00-9:30	Tomohiro Sasamoto	Exact large deviation of a tracer position in 1D symmetric exclusion process
9:30-10:00	Andrés Rosales	Critical exponents, magneto-caloric- and magneto-electrical effects, and magnetic interactions in Iron- and Cobalt-based metallic glasses
10:00-10:30	William Oquendo	Configurational temperature at limit states of granular materials
10:30-11:00	Coffee Break	
11:00-11:30	Carlos Quimbay	Statistical Mechanics in Opinion Formation Models
11:30-11:50	David Santiago Quevedo	Leyes del capitalismo como propiedades macroscópicas en un modelo cinético de distribución de riqueza con ahorro
11:50-12:10	Andrés Eduardo Gómez	Entropía y volatilidad de log-retornos de volúmenes diarios de transacción de acciones como herramientas para caracterizar la dinámica de mercados bursátiles
12:10-2:30	Almuerzo	
2:30-3:00	Joachim Rädler	Stochastic Thermodynamics of Collective Cell Migration
3:00-3:30	Camilo Aponte	Understanding a bleeding disorder by non-equilibrium free energy calculations
3:30-4:00	Gabriel Villalobos	Simulation of Trypanosoma Cruzi swimming in shear flow
4:00-4:30	Coffee Break	
4:30-6:00	Sesión de Pósters	

### Viernes 1 de Septiembre

Hora	Expositor	Título
8:30-9:00	Jesús Gómez Gardeñes	Hunter-Gatherer Networks and Cumulative Culture
9:00-9:30	Laura Lotero	Human mobility at urban scale. Insights from Colombian cities.
9:30-10:00	Fernando Naranjo	Characterization of resilience in the network of Aedes-Aegypti mosquitoes in urban Zone
10:00-10:30	Rafael Hurtado	Tonal consonance and the rise of mesoscopic rules in the Marimba de Chonta music
10:30-11:00	Coffee Break	
11:00-11:30	Juliana Restrepo	Controlling heat flow in nanoscale hybrid systems
11:30-12:00	Carlos Viviescas	Entanglement distribution in random states of identical particles
12:00-12:30	Luis Quiroga	Time-Correlations as Probes of Quantum Order-Disorder and Topological Phase Transitions
12:30-2:30	Almuerzo	
2:30-3:00	Juan Manuel R. Parrondo	Brownian Carnot Engine
3:00-3:30	Alonso Botero	Derivative principle: a powerful tool for joint eigenvalue distributions in unitarily invariant random matrix ensembles.
3:30-4:00	Diego Luis González	Island formation on one-dimensional colloidal substrates
4:00-4:30	Coffee Break	
4:30-5:00	Manuel Camargo	Amphiphilic star-like polymers in linear shear flow
5:00-5:30	Carlos Álvarez	The jellium model for systems of charged colloids
5:30-5:50	Andrés Arango	Ensamble de Estructuras a Nivel Mesoscópico: Formación de Fibras
5:50-6:30	Cierre y Entrega de Certificados	

