

IX GEFENOL Summer School on Statistical Physics of Complex Systems

Santander, 2-6 September

First Week	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-10:15	Participants arrival and reception (IFCA, office 018)	Ulrike Feudel, <i>Tipping points in dynamical systems and applications</i>			
10:15-11:30		Raúl Sánchez, <i>Critical transport dynamics in fusion plasmas</i>			
11:30-12:00		Coffee Break			
12:00-13:15		Carmen Miguel, <i>Statistical Mechanics of Topological Defects</i>			
13:15-14:30		Lunch			
14:30-15:00		Opening			
15:00-16:00	Carmen Miguel, <i>Statistical Mechanics of Topological Defects</i>	Student's short talks session I	Seminar I (IFCA)	Seminar II (IFCA)	Hands on <i>Critical transport dynamics in fusion plasmas</i>
16:00-16:10	Coffee break	Poster session and Snacks Student's short talks session II	Break	Break	Hands on <i>Statistical Mechanics of Topological Defects</i>
16:10-16:20					
16:20-16:30					
16:30-17:30	Raúl Sánchez, <i>Critical transport dynamics in fusion plasmas</i>		Hands on <i>Tipping points in dynamical systems and applications</i>	Hands on <i>Statistical Mechanics of Topological Defects</i>	
17:30-17:40	Ulrike Feudel, <i>Tipping points in dynamical systems and applications</i>		Hands on <i>Critical transport dynamics in fusion plasmas</i>	Hands on <i>Tipping points in dynamical systems and applications</i>	
17:40-18:30					
18:30-18:50					

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Santander, 9-13 September

Second Week	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-10:15		Hans J. Herrmann, <i>Simulating percolation and granular media</i>			
10:15-11:30	Seminar III (IFCA)	Ernesto Estrada, <i>Complex Networks: Structure, Dynamics and their interrelation</i>			
11:30-12:00	Coffee break				
12:00-13:00	Ernest Montbrió, <i>Synchronization in populations of oscillators</i>	Ernest Montbrió, <i>Synchronization in populations of oscillators</i>			
13:00-13:15					
13:15-14:30	Lunch				
14:30-15:00					
15:00-16:00	Ernesto Estrada, <i>Complex Networks: Structure, Dynamics and their interrelation</i>	Seminar IV (IFCA)	Seminar V (IFCA)	Seminar VI (IFCA)	
16:00-16:10	Hans J. Herrmann, <i>Simulating percolation and granular media</i>	Break	Break	Break	
16:10-16:20		Hands on <i>Simulating percolation and granular media</i>	Hands on <i>Synchronization in populations of oscillators</i>	Hands on <i>Complex Networks: Structure, Dynamics and their interrelation</i>	
16:20-16:30					
16:30-17:00					
17:00-17:30	Coffee break				
17:30-17:40	Student's session	Hands on <i>Complex Networks: Structure, Dynamics and their interrelation</i>	Hands on <i>Simulating percolation and granular media</i>	Hands on <i>Synchronization in populations of oscillators</i>	
17:40-18:30					
18:30-18:50					

Seminars:

Seminar I: *Novel topological phases in ferroelectric nanostructures*, by Javier Junquera, UC

Seminar II : *Chirality and topology in ferroelectric superlattices*, by Pablo García-Fernández, UC

Seminar III: *Drift wave turbulence in magnetically confined fusion plasmas*, by José A. Mier, UC

Seminar IV: *Information transmission through signaling pathways and regulatory networks*, by Raúl Fernandez, IBBTEC

Seminar V: *Predicting weather and climate*, by José M. Gutierrez, IFCA

Seminar IV: *Universality in spatio-temporal chaos*, by Diego Pazó, IFCA

Useful information

Bus:

The bus ticket is 1.30€. In addition, you can buy a contactless bus card in any tobacco shop or kiosk. This card costs 1€, has to be charged with at less 5€. Paying with this card the bus fare is 0.66€.

IMPORTANT: google maps has no information about Santander's bus lines, so do not rely on it.

It's better to use <https://moovitapp.com/> which is very reliable.

Buses from university to city centre:

- 7C1 from “Avenida de los Castros” (in front of “Facultad de ciencias”) to city centre.
- 7C2 takes you back from city centre.

Approximate frequency 15min in each direction.

More information: <http://www.tusantander.es/>

To go out of Santander: <http://www.transportedecantabria.es/web/guest/home>

Where to eat:

There are many restaurants where it is possible to have a good lunch or dinner.

Near university: in front of UIMP (Avenida de los Castros) there are some restaurants where cheap daily menus are offered.

City centre: in the city centre there are several bar/restaurants with good prices. If you want something informal you can order something to drink and a “pincho”. Pinchos are various small dishes showed over the bar table. Some recommendation are “Quebec”, any bar in “calle Arrabal” and “calle del medio”. For a proper dinner good choices are for example “Marucho”, “FuenteDe”, “Mesón Riojano”. If you prefer a more informal restaurant with pizza, hamburguers or similars we recommend “Sibarita's”, “Nobrac”, “Frida street food”.

Wifi:

You can connect to Wi-Fi by the international eduroam. If you have any issue, inform us and we will find a solution.