

UDA IKASTAROAK  
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UPV/EHU

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## 2019 ETSF Young Researchers Meeting

June 3<sup>rd</sup> to June 7<sup>th</sup>



Code: Z02-19

Type of activity: **Congress**

Place: **Carlos Santamaría, UPV/EHU**

Language: **English**

Academic validity: **50 hours**

### Directors



**Nahual Sobrino Coll**

*DIPC, UPV/EHU, Física de materiales  
(Donostia/San Sebastián)*

PhD student at Donostia International Physics Center. I belong to the Nano-Bio Spectroscopy Group and the European Theoretical Spectroscopy Facility network. I am interested in strong correlated systems, electrical and thermal transport and Density Functional Theory



**Rubén Fernández Ferradás**

*Laboratoire de Chimie et Physique Quantiques,  
Investigador Postdoctoral  
(Toulouse- Francia)*

I am PhD in Physics by University of Oviedo (Spain). I defended my thesis in February 2016. After that, I moved to Laboratoire de Chimie et Physique Quantiques in Toulouse where I am currently a Postdoctoral Researcher under the supervision of Arjan Berger and Pina Romaniello. The main topics of my research are Time-Dependent Current-DFT and magnetism in solid state systems.

### Organising Committee

**Maja Berovic**

Postdoctoral, Scuola Internazionale Superiore di Studi Avanzati di Trieste - SISSA.

**Ruben F. Ferradás**

Postdoctoral Researcher, Laboratoire de Chimie et Physique Quantiques, Toulouse, France.

**Nahual Sobrino Coll**

PhD Student, Donostia International Physics Center, San Sebastián, Spain.

**Djordje Dangic**

PhD Student, Tyndall National Institute, Cork, Republic of Ireland.

## Summary

The Young Researchers' Meeting (YRM) of the European Theoretical Spectroscopy Facility (ETSF) is an annual meeting of the first stage researchers (MSc and PhD students and Postdoctoral researchers) who work on the novel theoretical and computational approaches to study electronic and optical properties of materials.

This meeting provides researchers in beginning of their careers opportunity to share their work, introduce themselves with state-of-the-art theoretical methods for describing properties of materials, exchange ideas and make connections with other researchers at similar point of career. YRM 2019 will have five oral sessions. Topics of all of the session will be on ab-initio approaches of modelling material properties. First session will be on the ground state of the system and second will be on excited states of atomic, molecular and solid state systems. Third session will be on vibrational properties of materials. Fourth session will be on multi-scale simulation and fifth session will be on highly-correlated systems.

Conference will also host poster session where some of participants will have opportunity to show their work in graphical representation and to explain it to other researchers in less formal way. Industry session is also scheduled where people who transferred from academia to industry will tell participants their experiences and provide them with insight in need and expectation of industry regarding physicists and materials scientists.

## Aims

- Provide participants an opportunity to meet and discuss research with other people at similar stage of their career.
- Present young researchers a broader overview of the research in theoretical condensed matter physics and help them find a context of their own research in that picture.
- Help young researchers develop their oral presentation skills.
- Introduce participants with novel and alternative methods in theoretical condensed matter physics.
- Offer insights in alternative career paths.
- Strengthen bridge between academia and industry.
- Providing friendly and nurturing atmosphere for scientific exchange between researchers in the same period of their career.
- Prioritizing oral presentation for early stage researchers.
- Organizing keynote lectures by more experienced non-permanent researchers to provide overview of state-of-the-art research in specific areas, pointing out main obstacles and challenges.
- Scheduling industry session where young researchers who changed career paths can share their experiences and point out demands and goals of applied science and engineering.

## Programme

### June 3<sup>rd</sup>

- 08:30 Registration
- 09:00 Introduction talk  
**Manuel dos Santos Dias**  
Forschungszentrum Julich
- 10:15 Invited talk  
**Aron Cohen**  
Max Planck Institute for Solid State  
Research. Stuttgart, Germany
- 11:30 **Coffee break**
- 12:00 Contributed talk
- 12:20 Contributed talk
- 12:40 Contributed talk
- 13:00 Spare time
- 13:30 **Lunch**
- 15:00 Invited talk  
**Diego Carascal**  
University of Oviedo. Spain
- 16:00 **Coffee break**
- 16:30 Contributed talk
- 16:50 Contributed talk
- 17:10 Contributed talk

### June 4<sup>th</sup>

- 09:00 Invited talk. Strongly Corr. Syst.  
**Aldo Isidori**  
Scuola Internazionale Superiore di Studi  
Avanzati di Trieste, SISSA
- 10:15 Contributed talk
- 10:55 Contributed talk
- 11:30 **Coffee break**
- 12:00 Contributed talk
- 12:20 Contributed talk
- 12:40 Contributed talk
- 13:00 Spare time
- 13:30 **Lunch**
- 15:00 Contributed talk
- 15:30 Contributed talk
- 16:00 **Coffee break**
- 16:30 **Poster session**

June 5<sup>th</sup>

- 09:00 Invited talk. Excited systems  
**Mario Zappata Herrera**  
Donostia International Physics Center  
Donostia/San Sebastián. Spain
- 10:15 Contributed talk
- 10:55 Contributed talk
- 11:30 **Coffee break**
- 12:00 Contributed talk
- 12:20 Contributed talk
- 12:40 Contributed talk
- 13:00 Spare time
- 13:30 **Lunch**
- 15:00 Contributed talk. Excited systems
- 15:30 Contributed talk. Excited systems
- 16:00 **Coffee break**
- 16:30 Contributed talk. Vibrat. Prop.
- 16:50 Contributed talk
- 17:10 Contributed talk
- 17:30 Spare time
- 18:00 SOCIAL EVENT**

June 6<sup>th</sup>

- 09:00 Invited talk. Vibrat. Prop.  
**Ion Errea**  
Donostia International Physics Center  
Donostia/San Sebastián. Spain
- 10:15 Contributed talk
- 10:55 Contributed talk
- 11:30 **Coffee break**
- 12:00 Contributed talk
- 12:20 Contributed talk
- 12:40 Contributed talk
- 13:00 Spare time
- 13:30 **Lunch**
- 15:00 Contributed talk
- 15:30 Contributed talk
- 16:00 **Coffee break**
- 16:30 Industry session
- 18:00 CONFERENCE DINNER**

June 7<sup>th</sup>

- 09:00 Invited talk. Multiscale sim.  
**Miguel Caro**  
Aalto University
- 10:15 Contributed talk
- 10:55 Contributed talk
- 11:30 **Coffee break**
- 12:00 Contributed talk
- 12:20 Contributed talk
- 12:40 Contributed talk
- 13:00 Spare time
- 13:30 Concluding words

## Invited Speakers

**Manuel dos Santos Días**  
Forschungszentrum Julich

**Aron Cohen**  
Max Planck Institute for Solid State Research.  
Stuttgart, Germany

**Diego Carascal**  
University of Oviedo. Spain

**Aldo Isidori**  
Scuola Internazionale Superiore di Studi Avanzati di  
Trieste, SISSA

**Mario Zappata Herrera**  
Donostia International Physics Center  
Donostia/San Sebastián. Spain

**Ion Errea**  
Donostia International Physics Center  
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**Miguel Caro**  
Aalto University

## Contributors



## Main collaborators

Fundación BBVA

Registration [www.uik.eus](http://www.uik.eus)

	Until June 3 <sup>rd</sup>
Registration	150,00 €
Invited speakers	0,00 €

## More information

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