

## CFM-MPC PhD day

### Program

**9:20 Welcome:** Silvina Cerveny

**9:30 Short talks by CFM's pre-doctoral researchers - Chair: Francesco Coin**

<p>Investigating the Structure and Dynamics of Polar Functionalized Polymer Systems for Energy Storage Applications <b>Speaker:</b> Manuel Gómez Menéndez <b>Supervisors:</b> Jon Maiz and Arantxa Arbe</p>	<p>Detecting complex thermal behavior in vitrimeric materials by calorimetry <b>Speaker:</b> Vasiliki-Maria Stavropoulou <b>Supervisor:</b> Daniele Cangialosi</p>	<p>Poly(peptide) single chain nanoparticles <b>Speaker:</b> Thu Phuong Le <b>Supervisors:</b> Paula Malo and Arantxa Arbe</p>
<p>Assessing the capabilities of state-of-the-art low-flux neutron sources – Scientific demonstrators to date <b>Speaker:</b> Cristina Maciá Castelló <b>Supervisors:</b> Félix Fernández Alonso and Jorge Sánchez Dolado</p>	<p>Exploring Isotope-driven Stabilization in Hybrid Perovskites <b>Speaker:</b> Pablo Gila Herranz <b>Supervisor:</b> Félix Fernández Alonso</p>	

**10:45 Coffee break**

**11:30 Short talks by CFM's pre-doctoral researchers - Chair: Jozef Janovec**

<p>Near-field probing of in-plane and out-of-plane molecular vibrations in anisotropic thin layers <b>Speaker:</b> Isabel Pascual Robledo <b>Supervisors:</b> Javier Aizpurua and Rainer Hillenbrand</p>	<p>Fluorescence of a single molecule attached to a Scanning Tunneling Microscope (STM) picocavity <b>Speaker:</b> Xavier Arrieta Aristi <b>Supervisors:</b> Javier Aizpurua and Rubén Esteban</p>	<p>Nonlinear photocurrents in Mn<sub>5</sub>Si<sub>3</sub> <b>Speaker:</b> Javier Sivianes Castaño <b>Supervisors:</b> Julen Ibañez Azpiroz</p>
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**12:15 Short talks by CFM's pre-doctoral researchers - Chair: Pelayo Marin Villa**

<p>Superconducting Al-based tunneling junctions proximitized by EuS. Current progress and future work  <b>Speaker:</b> David Caldevilla Asenjo  <b>Supervisors:</b> Celia Rogero and Maxim Ilin</p>	<p>Structural, Electronic, and Magnetic Properties of CoCl<sub>2</sub> on Au(111)  <b>Speaker:</b> Samuel Kerschbaumer  <b>Supervisor:</b> Celia Rogero</p>	<p>Structural polytypes and collective electronic phases in transition metal dichalcogenides  <b>Speaker:</b> Sandra Sajan  <b>Supervisor:</b> Miguel Moreno Ugeda</p>
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**13:00 Lunch Break (CFM Cafetería)**

**14:30 Short talks by CFM's pre-doctoral researchers - Chair: Martín Molezuelas Ferreras**

<p>Structured Squeezed Light: a tool for noise reduction  <b>Speaker:</b> Maria García Alonso  <b>Supervisor:</b> Gabriel Molina Terriza</p>	<p>Analyzing the backscattered light of dielectric microparticles  <b>Speaker:</b> Isaac Tribaldo Ramírez  <b>Supervisor:</b> Gabriel Molina Terriza</p>	<p>Optically levitated particles: A bridge between quantum and classical world  <b>Speaker:</b> Shah Jee Rahman  <b>Supervisor:</b> Gabriel Molina Terriza</p>
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