

## II NanoFrontMag Scientific Workshop

Tuesday, June 12

9:00-9:15 – Recepción.

9:15-10:00 - **Olivier Fruchart (SPINTEC Laboratory)**, "*Open questions in applied and fundamental nanomagnetism... Facing social challenges of the 21st century*".

10:00-10:20 - **Isabel Guillamón (UAM)**, "*Imaging pnictide superconductors close to magnetic instabilities via scanning tunneling spectroscopy*".

10:20-10:40 - **Cristina Bran (CSIC)**, "*Magnetization Ratchet in Cylindrical Nanowires*".

10:40-11:00 - **Paolo Perna (IMDEA Nanociencia)**, "*Spin Orbit driven effects in Graphene-FM systems and in half-metallic oxides*".

11:00-11:30 - Pausa café

11:30-12:15 - **Javier Tejada (UB)**, "*Experiments on Quantum and Classical magnetization reversal process in nanomagnets*".

12:15-12:35 - **María Varela (UCM)**, "*Mapping of magnetic quantities across oxide interfaces via high resolution energy-loss magnetic circular dichroism*".

12:35-12:55 - **Víctor Rollano (IMDEA Nanociencia)**, "*Frustrated and Topologically Protected Magnetism in Spin-Ice Arrays*".

12:55-13:15 - **Antonio Lara (UAM)**, "*Microwave stimulation of superconductivity in the mixed stater*".

13:15-14:00 - **Jairo Sinova (JGU)**, "*Topological Antiferromagnetic Spin-orbitronics*".