

INC YOUNG RESEARCHERS MEETING
(La Cristalera, Miraflores de la Sierra, December 17th, 2021)

9:30 – 9:45 Welcoming session

9:45 – 10:15 Session I (Chair A. de Andres)

9:45 *Invited speaker*: Gloria Platero, “Simulation of topological phases in quantum dot arrays”, ICMM – CSIC

“Chema Gómez-Rodríguez” awards to the best paper

10:15 Eva Cortés-del Rio et al, “Observation of Yu-Shiba-Rusinov States in Superconducting Graphene” *Adv. Mater.* 2021, 33, 2008113.

10:40 Elisa Ortiz-Rivero, “Laser Refrigeration by an Ytterbium-Doped NaYF₄ Microspinner”, *Small* 2021, 21003122.

11:10 – 11:30 Coffee Break

11:30 – 13:00 Session II (Chair A. Gutiérrez)

INC & Programa de Doctorado en Materiales Avanzados y Nanotecnología

11:30 Nuria Jiménez Arévalo “BCN coatings on TiO₂/TiS₃ heterostructures for electrolytic water splitting”, M- 4

11:50 Alejandro José Uría Álvarez “Deep learning for disordered topological insulators through entanglement spectrum”, M-3

12:10 Carlos Sebastián Vicente “Light and Thermally Induced Charge Transfer and Ejection of Micro/Nanoparticles from Ferroelectric Crystal Surfaces”, M-5

12:30 Daniel Arribas “On-Surface Dehydrogenation and Cyclisation of n-Octane (C₈H₁₈) on Pt(111)”, M-12

13:00 – 14:30 Poster Session

14:30 – 15:45 Lunch

15:45 – 17:30 Session III (Chair J. J. de Miguel)

INC & Programa de Doctorado Interuniversitario en Física de la Materia Condensada, Nanociencia y Biofísica

15:45 Antonio Tiene “The two-dimensional Fermi polaron problem”, M-5

16:05 Aitor Zambudio Sepúlveda “Fine Defect Engineering of Graphene Friction”, Universidad de Murcia

16:25 Gonzalo Álvarez Pérez “Refraction and lensing of nano-light in an anisotropic two-dimensional material”, Universidad de Oviedo

16:45 Sergio Puebla “In-plane anisotropic optical and mechanical properties of two-dimensional MoO₃”, ICMM – CSIC

17:05 César González-Ruano “Boosting Room Temperature Tunnel Magnetoresistance in Hybrid Magnetic Tunnel Junctions Under Electric Bias”, M-3

17:25 – 17:45 Wrap up and closing session