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

13:00 – 14:30 Poster Session

List of posters:

1. Fernández-Lomana Gómez-Guillamón, Marta: Tunneling spectroscopy at very high magnetic fields in the iron based superconductor KFe$_2$As$_2$
2. Moreno, Jose Antonio: Scanning AC Josephson Spectroscopy
3. Ramírez González, Juan Pedro: Phase behavior of hard circular arcs: purely entropy-driven cluster phases
4. Balduque Picazo, José: Interference induced thermoelectric response of ballistic conductors
5. Al Shuhaib, Jinan Hussein: Synthesis, crystal structure, band gap energy and Seebeck coefficient of trigonal Sr$_{x+1}$Ti$_x$S$_3$ chalcogenide perovskites
6. Muñoz Ortiz, Tamara: Gold nanoshells for molecular imaging of inflammation by Optical Coherence Tomography
7. Fernández Martínez, Javier: Manipulating coherence and directionality of rare earth quantum emitters by plasmonic chains
8. López Nebreda, Rubén: Simultaneous measurement of conductance and thermopower using STM and multifrequency detection
9. Martín Pérez, Lucía: Liquid-phase exfoliation of magnetic van der Waals crystals and its role in the synthesis of 2D-2D covalent heterostructures
10. Casal, Ignacio: Implementation of high frequency techniques for measuring hybrid superconductor-semiconductor devices
11. Exposito, Diego: Development of a true variable temperature gateable-STM/AFM in LT-UHV conditions to probe 2D materials
12. García, Pablo: Reduced size STM in high magnetic fields
13. Strobl, Klara: Electromechanical photophysics of individual P22 protein cages loaded with GFP
14. Cantero, Miguel: Probing the structural stability of SARS-CoV-2 surrogate TGEV under stringent environmental conditions
15. Hernández del Valle, Miguel: A coarse-grained approach to model the dynamics of the actomyosin cortex
16. Camarero, Pablo: Laser Irradiation in spheroids MCF-7 and U-87
17. Ramírez, Mª Jesús: Preparation of thin film LiCoO$_2$ cathodes by pulsed laser deposition for Li-ion batteries
18. Díaz Escríbano, Samuel: Proximity effects and topological superconductivity dependency on layer thickness in superconductor/ferromagnetic/semiconductor hybrid devices
19. Viñals, Silvia: Characterization of the external pulsed beam at CMAM for proton-therapy studies at the FLASH regime
20. Rodríguez Espinosa, Mª Jesús: Unraveling the structure of RNA-packed within Penicillium Chrysogenum Virus and its influence in the mechanical stability
21. Campusano, Richard: Bacillus Subtilis swimming motility in liquid broth and structured media
22. Gómez, Mario: The Josephson effect in full-shell Al-InAs nanowires in the Little-Parks regime
23. Vivas Viaña, Alejandro: Unconventional mechanism of virtual-state population through dissipation
24. Lu, Dasheng: Improving stability and thermal sensitivity of an optically trapped upconversion nanoparticle by coating with a thermo-sensitive polymer
25. Díaz Sánchez, Jesús: Electronic characterization of LiCoO2 thin films in the overlithiation regime by XPS and ARPES
26. Caso, Diego: Excitation and propagation of edge spin waves in ferromagnetic triangles
27. Álamo Vargas, Pablo: Luminescence of GaP1-xNx layers grown on nominally (001) oriented Si substrates
28. Guo, Haojie: Unraveling the highly complex nature of antimony on Pt(111)
29. García Esteban, Juan José: Deep Learning for the Modeling and Inverse Design of Radiative Heat Transfer
30. Águeda Velasco, Miguel: Superconducting gap and magnetoresistance of layered AuSn4
31. Hurtado Gallego, Juan: Quantum Interference in Radical and Neutral Single-Molecule Junctions
32. Singh, Raghvendra: Irradiation of Bi-Sb crystals for possible subsurface amorphization
33. Salazar Beitia, Iñigo: GaSe and carbon nanotubes for Li-ion batteries
34. Li, Hao: Strongly anisotropic strain-tunability of excitons in exfoliated ZrSe3
35. de la Peña Ruiz, Sebastián: Theory of drift-enabled control in nonlocal magnon transport
36. Arranz Jiménez, Marcos: Photovoltaic effects study on hybrid perovskites thin layers
37. Lasso, Alejandro: Density Functional Theory and Machine Learning techniques for the study of amorphous materials
38. Fernández Alonso, Francisco Javier: Deposition of impedimetric electrodes on steel for the development of embedded sensors
40. Lizarraga Lallana, Juan: Polariton condensation in semiconductor microcavity pillars
41. Luengo-Márquez, Juan: Force-dependent mechanical properties of nucleic acids from fluctuations
42. Mangriya, Paula: Confined motion of active rotating particles within lipid vesicles
43. Tinao, Berta: Artificial Vesicle Fusion: from Fundamentals to Applications
44. Esteve-Paredes, Juan José: Light-matter interaction from density functional theory with application to attosecond electron dynamics
45. Geva, Galor: Assessing the predictive ability of the effective temperature in a driven colloidal suspension
46. Manzanares Negro, Yolanda: Controlling toughness of MoS2 single layers by introducing atomic vacancies
47. Salagre, Elena: Surface Evolution in epitaxial Li4CoO2 films studied by LEEM/PEEM for x ≤ 1
48. García Blázquez, Antonio: Projective representations from non-symmorphic space groups and spin-orbit coupling: how and why
49. Ibabe Aviles, Angel: Transport and heating effects in proximitized InAs nanowire islands