

XIV Jornada de Recerca



del Departament de Física
Dimarts, 29 de gener de 2019



Sala Pere i Joan Coromines,
Institut d'Estudis Catalans, Carrer del Carme, 47. Barcelona

List of poster presentations

1. Title: *"Spin-orbit coupling in quantum systems: a quantum Monte Carlo approach"*
PhD Student: Juan Sánchez Baena
Supervisors: Ferran Mazzanti, Jordi Boronat
2. Title: *"Bilayer system of dipolar bosons: few-body bound states"*
PhD Student: Grecia Guijarro
Supervisors: Jordi Boronat, Grigory Astrakharchik
3. Title: *"Quantum Dipolar Droplets"*
PhD Student: Raúl Bombín
Supervisor: Jordi Boronat
4. Title: *"Effect of velocity on the ordering of collectively moving agents"*
PhD Student: Julia Múgica
Supervisor: Romualdo Pastor-Satorras
5. Title: *"Reaction-diffusion model for the understanding of tuberculosis dynamics at the scale of a secondary pulmonary lobule"*
PhD Student: Martí Català
Supervisors: Sergio Alonso, Clara Prats
6. Title: *"Analyzing policy making on Tuberculosis in Nigeria"*
PhD Student: Nura Mohammad Rabiuh Ahmad
Supervisors: Daniel Lopez-Codina, Clara Prats
7. Title: *"Influence of t-tubular network on the characteristics of calcium transients"*
PhD Student: Miquel Marchena
Supervisor: Blas Echebarria

8. Title: *"Modeling Chemotactic Response and Contact Interactions of Amoeboid Cells"*
PhD Student: Eduardo Moreno
Supervisor: Sergio Alonso
9. Title: *"The Role of Oblique Wave Incidence on Crescentic Bar Dynamics"*
PhD Student: Rinse de Swart
Supervisors: Francesca Ribas, Daniel Calvete
10. Title: *"A new shoreline instability mechanism related to high angle waves"*
PhD Student: Nabil Kakeh
Supervisors: Daniel Calvete, Albert Falqués
11. Title: *"From relaxation dynamics to drug delivery: the case of the antibiotic Chloramphenicol"*
PhD Student: Sofia Valenti
Supervisors: Roberto Macovez, Jordi Puiggali
12. Title: *"Study of New High-Entropy Metallic Glasses"*
PhD Student: Leila Panahi
Supervisors: Pere Bruna, Eloi Pineda
13. Title: *"Exploiting optical chaos for speckle reduction in double pass ocular imaging"*
PhD Student: Donatus Halpaap
Supervisor: Cristina Masoller
14. Title: *"Complex network analysis of images of human retina"*
PhD Student: Pablo Amil
Supervisor: Cristina Masoller
15. Title: *"A Hilbert approach to investigate climate connectivity"*
PhD Student: Dario Zappalà
Supervisor: Cristina Masoller
16. Title: *"Stabilization of Broad Area Semiconductor laser sources"*
PhD Student: Judith Medina
Supervisors: Kestutis Staliunas, Ramón Herrero, Muriel Botey