

**SEVILLA LODY2026S WORKSHOP
ON LOCALIZATION DYNAMICS
IN MATTER AND WAVES
Sevilla, October 14-15, 2026**



Wednesday 14: Seminar II IMUS: Instituto de Matemáticas de la Universidad de Sevilla
Thursday 15: Sala multiusos (2ª planta). ETSII: Escuela Técnica Superior de Ingeniería Informática. Both very close at Avda Reina Mercedes, 41012-Sevilla

For IMUS is necessary to use [on-line form](#) to subscribe, necessary for admission

PROGRAM

Wednesday, October 14, 2026 at IMUS (link for subscription above)

Session 2: Chair [Niurka R Quintero](#), Group Math. Modeling of Nonlinear Systems, U. Sevilla

10:00 [Leonor Cruzeiro](#), The second protein folding problem

10:30 [Eduardo Menéndez-Proupin](#), Intrinsic defect on copper nitride.

10:50 [Julia Cantisán](#), Fractional dynamics in sine-Gordon models

11:10 Coffee break

Session 2: Chair [Joël Tsoplefack](#), Group of Nonlinear Physics, U. Sevilla

11:40 [Faustino Palmero](#). Electrical lattices as experimental platforms for spatially localized Excitations in discrete systems

12:00 [Juan FR Archilla](#), Breathers in an electric all-bands-flat lattice.

12:20 [Hiroki Ono](#), Non-Fourier thermal transport and NP Symmetry

12:50 [Michael F Russell](#) (on-line) Solitons and quodons: What experiments show

13:10 Lunch: Comedor Instituto de Idiomas

Thursday, October 15, 2026 at ETSII (no subscription required)

Session 3: Chair: [Almudena P Márquez](#), Group of Bif. Theory and Dyn. Systems, U. Cádiz

09:00 [Larissa Brizhik](#), Soliton dynamics in a magnetic field and stabilizing role of dissipation effects

09:30 [Francisco Villatoro](#), Nonlinear Dirac equations: solitons and numerical challenges

10:00 [David Mellado-Alcedo](#), Stability of parametrically driven, damped nonlinear Dirac solitons

10:20 Coffee break

Session 4: Chair: [Elena Recio](#). Group of Bif. Theory and Dyn. Systems, U. Cádiz

10:50 [Jesús Cuevas-Maraver](#), Ponderomotive solitons in plasmas,

11:10 [Fernando Carreño-Navas](#), Soliton dynamics and stability in PT-Symmetric Gross-Neveu models under modified nonlinear interactions

11:30 [Jesús Casado-Pascual](#), Controlling quantum transport by measurement-rate modulation

11:50 [Maria Laura Olivera-Atencio](#), Quantum reinforcement learning in the presence of thermal dissipation

12:10 [Antonio Sojo](#), Does The Stroboscopic Lindbladian Exist? An Analytical Approach

12:30 [Pedro Pérez-Fernández](#), Exploring dynamical phase diagrams with a double quench Controlled by relaxation time

12:50 Short break

Session 5: Chair [Juan FR Archilla](#)

13:00 [Larissa Brizhik](#), Q&A about life and science in a country at war

13:30-13:45 Closing