QSLiM

SYMPOSIUM 2026

QSLiM

QUANTUM, SOFT AND LIVING MATTER

Bringing together physicists, chemists, biologists, engineers, and materials scientists to explore the frontiers of Quantum, Soft and Living Matter

QUANTUM
From fundamental principles to quantum technologies

SOFT MATTER
Uncovering the physics of complex, adaptive and responsive systems

LIVING MATTER
Understanding the physics of life at all scales

14 SEPTEMBER 2026

10:20 –17:00 · Room 6.3.27

University of Lisbon · Campo Grande Campus

INVITED TALKS • STUDENT PRESENTATIONS • POSTER SESSION • NETWORKING

Ciências ULisboa
Faculdade de Ciências da Universidade de Lisboa

CFTC

BioISI

PROGRAMME

MORNING SESSION

10:20 **Welcome & Opening**

10:40 **Iveta Pimentel**

Unconventional Superconductors and Magnets

11:00 **Mykola Tansiquevich**

Emergence in Physics: From Atoms to Living Matter

11:20 **Nuno Araújo**

Self-organization under confinement: from elementary shapes to living matter

11:40 **Mário Rodrigues**

Pushing The Limits of Atomic Force Microscopy

12:00 **João Neves** — PhD · 8 min

Mapping the discrete landscape of folding

12:10 **Daniel Matias** — PhD · 8 min

Driving Kirigami Self-Folding Through Mechanical Agitation

12:30 **LUNCH BREAK**

AFTERNOON SESSION

14:00 **Ana Carapeto**

Microfluidics & AFM: Exploring Soft Matter

14:20 **Patricia Faisca**

Biological physics of biomolecular processes

14:40 **Diogo Pinto**

Collective failure in living matter

15:00 **Rafael Almada** — PhD · 8 min

Contractile Pulse Dynamics in Disordered Cellular Networks

15:10 **Helder Esteves** — PhD · 8 min

Substrates that deform by bending: a new mechanical setting for cells

15:20 **Maks Bambic** — PhD · 8 min

Peering Into the Black Box: Discovering Interactions with Interpretable Machine Learning

COFFEE BREAK & POSTER SESSION · 15:30–16:30

Hubert Almeida	Liquid film modeling with multicomponent Lattice Boltzmann Methods
Bernardo Marques	Non-Equilibrium Folding Pathways in Kirigami Nets
Carolina Batista	Fracture as an emergent phenomenon in confluent tissues
Ricardo Gaboleiro	A continuum description of fracture in confluent tissues
Luís Machado	Bioinspired synthetic materials for fracture in living matter
Beatriz Teixeira	The role of topology in protein's thermal stability

16:30 **Final Discussion**

17:00 **End of Workshop**