



Interaction of Poisson Geometry, Lie Theory and Symmetry

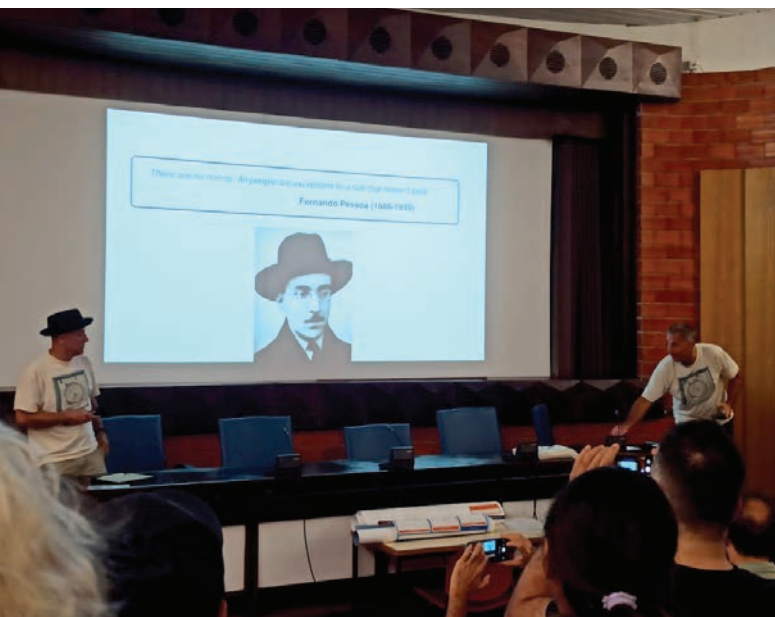
30 June–4 July 2025

by **João Nuno Mestre***

The conference *Interactions of Poisson Geometry, Lie Theory and Symmetry* took place in Instituto Superior Técnico, Lisbon, from June 30 to July 4, organized by the Centre for Mathematical Analysis, Geometry, and Dynamical Systems (CAMGSD) and by the Centre for Mathematics of the University of Coimbra (CMUC).

Poisson geometry and Lie theory are related branches of differential geometry, which are both deeply motivated by their applications to classical and quantum mechanics. A unifying feature is the important role symmetry plays in the study of such systems.

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The conference explored the many beautiful connections between Poisson geometry, Lie theory and symmetry, themes chosen in honor of the 60th birthday of Professor Rui Loja Fernandes, who has made great contributions to these topics throughout his career.

The event had 115 participants, based in 22 different countries. Of those, 32 participants were students, and 30 participants were early-career researchers (at most 10 years after their PhD). The scientific program included 22 talks from invited speakers, and 25 Poster presentations divided among 5 separate poster sessions. The slides of the talks and most of the posters are available in the webpage of the conference (<https://sites.google.com/view/ipgls2025>).

The conference had financial support from the research centres CAMGSD and CMUC, FCT (Fundação para a Ciência e a Tecnologia), NSF (US National Science Foundation), EMS (European Mathematical Society), and CIM (Centro Internacional de Matemática). The funding from CIM was used to support the lodging of 3 participants (1 PhD Student and 2 Postdocs) during the conference.