Centro de **Matemática**
Universidade do Porto

Geometry and Topology seminar

Date. March 13th, 15h30
Place. Room **0.07**

Speaker. Rémi Leclercq (Orsay)

Title. C^0-rigidity phenomena in symplectic topology.

Abstract. A celebrated theorem due to Gromov and Eliashberg states that the C^0-limit of a sequence of symplectomorphisms is symplectic (if smooth). This rigidity phenomenon motivated the study of C^0 symplectic geometry which is concerned with continuous analogs of classical notions. In joint works with V. Humilière and S. Seyfaddini, we showed that coisotropic submanifolds together with their characteristic foliations are also C^0-rigid. I will explain this result (and some consequences) and in particular how it relies on a continuous analog of a dynamical property satisfied by coisotropics which generalizes a foundational theorem in C^0-Hamiltonian dynamics.