## V. Araujo

Title:

## Dominated splitting and zero volume for incompressible three flows

## Abstract:

In a joint work with M. Bessa (CMUP), we prove that there exists an open and dense subset of the incompressible 3-flows of class C2 such that, if a flow in this set has a positive volume regular invariant subset with dominated splitting for the linear Poincaré ´ flow, then it must be an Anosov flow. With this result we are able to extend the dichotomy of Bochi–Mañé for flows with singularities. That is, we obtain for a residual subset of the C 1 incompressible flows on 3-manifolds that: either all Lyapunov exponents are zero or the flow is Anosov.