

## Sub-Riemannian fluids

*lundi 9 octobre 2023 13:45 (1 heure)*

In this presentation, I will introduce the Euler and Navier-Stokes systems with anisotropic velocity fields, where this anisotropy is defined by a geometric structure. Additionally, I will discuss the issues of well-posedness and regularity for the subRiemannian Navier-Stokes system. The analysis is based on the propagation of carefully selected families of vector fields through the energy and relies on hypoellipticity, geometry and analysis on stratified Lie groups.

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