



POLITÉCNICA

UNIVERSIDAD  
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Seminario de Investigación  
Dpto. Matemática Aplicada  
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# A panoramic view of the geometry of the steady Euler flows

An inviscid and incompressible fluid in equilibrium on a Riemannian manifold is described by (an autonomous) vector field  $X$  that satisfies the stationary Euler equations. In this talk I will survey several classical and recent results on the geometry and dynamics of the steady Euler flows. This includes the celebrated Arnold's structure theorem, the complexity of Beltrami flows and the topological properties of the helicity.

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