

Instability and Non-uniqueness for the Euler and Navier-Stokes Equations

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The incompressible Navier-Stokes and Euler equations are fundamental PDEs in mathematical fluid dynamics and their well-posedness theory is nowadays largely open.

The past decade has seen a surprising and remarkable progress, through various different attempts, in describing some non-unique solutions of these PDEs.

The talk will survey some of the recent contributions in this direction, including works in collaboration with Albritton and Brué which show that Leray-Hopf solutions of the forced Navier-Stokes equations are not unique.

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