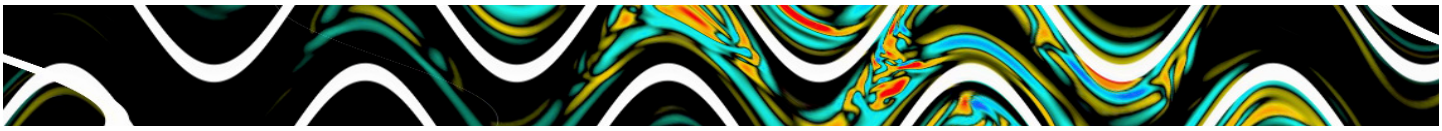
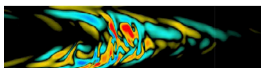
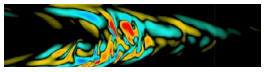
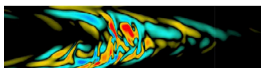
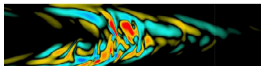
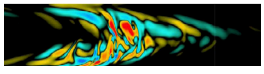
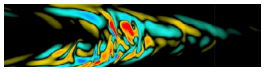
Mercredi 11 mai à 10h30
INSTITUT DE MECANIQUE DES FLUIDES - Amphi Nougaro
allée du Professeur Camille Soula, Toulouse

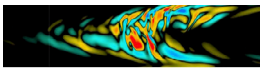
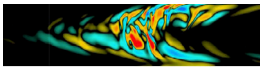
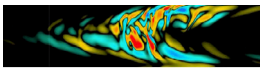
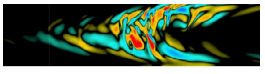
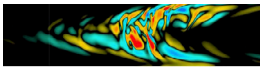
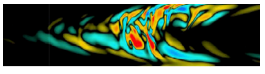
Recent progress in understanding the transition to turbulence in shear flows

Pr. Rick Kerswell
Department of Mathematics, University of Bristol



I will start by giving an overview of the recent successes of a dynamical systems approach to understanding turbulent transition in shear flows using pipe flow as the primary example. I will then go on to discuss some recent ideas aimed at trying to extract the «minimal seed» of turbulence. That is, the «smallest» disturbance to a shear flow which will trigger turbulence.

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