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Contributed Talks 3: Augusto Del Zotto & Marc Nualart Batalla

Tuesday, 29 April 2025 11:30 (1 hour)

Augusto Del Zotto. In this talk, we investigate the effect of rotation on shear flows, focusing on the simple case of a three-dimensional Couette flow. The dispersive behavior induced by the Coriolis force manifests at both the linear and nonlinear levels. In the linear case, stability depends on the strength and direction of rotation, with both stable and unstable regimes observed. In the nonlinear case, rotation positively influences the nonlinear stability threshold.

Marc Nualart Batalla. Streamline Geometries of Steady Euler Flows. Steady states of the two-dimensional Euler equations generally come in infinite-dimensional families and play an important role in the long-time dynamics of generic initial data. In this talk we will introduce several classes of steady states, we will discuss recent results on their structures and we will provide a geometric characterization of them in the periodic channel and annulus.