

Incompressible fluids driven by degenerate forces

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Approximate controllability via degenerate controls illustrates a mechanism that propagates a class of forces having only few degrees of freedom to a dense set in the state space. A prominent example are finite-dimensional controls, which belong at each time to a universal finite-dimensional function space. In this context, it is a well-known open problem whether the Navier—Stokes system driven by finite-dimensional and physically localized controls is approximately controllable. In my talk, I will present recent progress in this direction.

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