

Approximate controllability of second grade fluids

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In this talk, we consider the system two-dimensional second grade fluids on the torus, controlled by an external forcing term. This is a class of non-Newtonian of differential type, where we only possess a smoothing effect in infinite time. Using the method of extension and convexification of Agrachev-Sarychev, we study the approximate controllability of this system by a finite-dimensional control force.

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