

KAM theory in active scalar equations

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Abstract : Tautologically, a smooth, steady fluid remains smooth for all time since it does not evolve non-trivially in time. A natural question is whether a small perturbation of such a smooth steady state can also remain smooth for all time.

Especially, when the well-posedness of the governing equation is in question, the investigation of initial data near stable steady states can give insight into potential global-in-time solutions.

In this talk, we will discuss the construction of global solutions to the generalized surface quasi-geostrophic equations (gSQG) by means of KAM theory. This is a joint work with Javier Gomez-Serrano and Alexandru Ionescu.

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