Long-time behavior of solutions to some equations in fluid mechanics

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Abstract: The aim of this talk is twofold. First, we will briefly introduce the theory of pullback attractors that has been developed recently and has shown to be very useful in the understanding of the dynamics of non-autonomous dynamical systems. Second, we will present some recent results on the existence and fractal dimension estimates of pullback attractors for some non-autonomous nonlinear partial differential equations arising in fluid mechanics.