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Emmanuel Grenier* (emmanuel.grenier@ens-lyon.fr), UMPA, Ecole Normale Supérieure de Lyon, 46 allée d'Italie, Lyon, France. *New advances in boundary layers for Navier Stokes equations.*

The question of existence and stability of boundary layers in the inviscid regime of Navier Stokes equations is a classical problem in Fluid dynamics.

Formally, so called Prandtl boundary layers appear. However for some range of parameters they are known to be unstable.

In this talk we will review recent progress in the mathematical study of these instability.

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