

## **Well-posedness in Gevrey space for the Prandtl equation with non-degenerate critical points**

Abstract: In the talk we study the Prandtl system with initial data admitting non-degenerate critical points. For all  $\sigma \in [3/2, 2]$ , we obtain the local well-posedness in the space of Gevrey class  $G^\sigma$  in tangential variable  $x$  and Sobolev class in normal variable  $y$ . The main tools are the energy method and the abstract Cauchy-Kovalevskaya theorem.

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