

DEPARTMENT OF MATHEMATICS City University of Hong Kong

S E M I N A R

Well-posedness in Gevrey function space for the threedimensional Prandtl equations

by

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ABSTRACT

We study the three-dimensional Prandtl equations without any structure condition and prove that the system is locally well-posed in the Gevrey function space with Gevrey index in]1,2]. The proof is based on some new observation of cancellation mechanism in the three space dimensional system in addition to those in the two-dimensional setting.

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