

PolyU PDE Seminar Series

Prof. Weixi LI

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Topic

Analytic or Gevrey estimates for the Navier-Stokes, Prandtl and Boltzmann equations

Date| Time

29 July 2025 (Tuesday) | 16:30 – 17:30 (HK Time)

Venue

Y306

Abstract:

We study the analyticity or sharp Gevrey regularity of the Prandtl, Navier-Stokes and the Boltzmann equations. The lower bound of analyticity or Gevrey radii agree with that for the classical heat equation. The proof relies on the macro-micro decomposition, hypoelliptic techniques and energy-type approach.

ALL ARE WELCOME