香港中文大學 The Chinese University of Hong Kong

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FIRST IN CHANGE

Analysis and PDE Seminar

Dr. Tobias Barker

Department of Mathematical Sciences,
University of Bath

TITLE: A quantitative approach to the Navier–Stokes equations

Date : Oct 13th, 2022 (Thursday)
Time : 4pm-5pm (Hong Kong time)
5pm-6pm (Korea time)

Link to ZOOM : https://unist-kr.zoom.us/j/3170659442
Meeting ID : 317 065 9442
Password : APDE21

Abstract. Recently, Terence Tao used a new quantitative approach to infer that certain 'slightly supercritical' quantities for the Navier–Stokes equations must become unbounded near a potential blow-up time. In this talk I'll discuss a new strategy for proving quantitative bounds for the Navier–Stokes equations, as well as applications to behaviours of potentially singular solutions. This talk is based upon joint work with Christophe Prange (CNRS, Cergy Paris Université).

All are welcome

This is a joint activity organized by Department of Mathematics, The Chinese University of Hong Kong, Hong Kong; Department of Mathematics, Institute of Mathematical Research, Research Division of Mathematical and Statistical Science, The University of Hong Kong, Hong Kong; and Department of Mathematical Sciences, Ulsan National Institute of Science and Technology, Korea. More details can be found in https://hkumath.hku.hk/~imr/event/CUHK_HKU_UNIST_Analysis_and_PDE/index.php.