

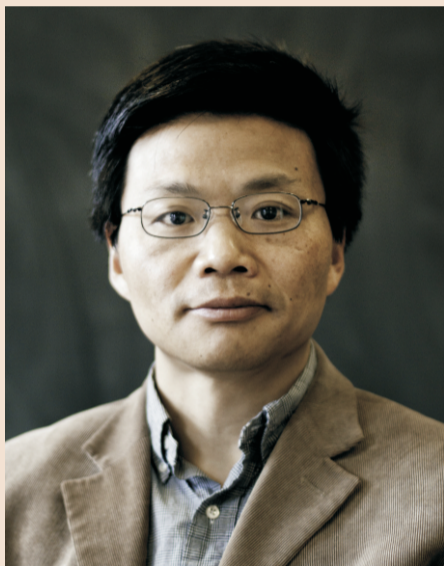


香港浸會大學
HONG KONG BAPTIST UNIVERSITY

*Institute of Creativity
Institute of Computational and Theoretical Studies
Department of Mathematics*

Distinguished Lecture Series

Stability of Laminar Shear Flow



Professor Weinan E

*Peking University and Princeton University
Institute of Physics Fellow
SIAM Fellow
Member of Chinese Academy of Sciences*

Date: 21 March 2013 (Thursday)
Time: 4:30 pm - 5:30 pm (Preceded by Reception at 4:00 pm)
Venue: RRS905, Sir Run Run Shaw Building,
Ho Sin Hang Campus,
Hong Kong Baptist University

Abstract

In 1883, Reynolds published his classical work on the experimental study of the stability of shear flows. Since then the issue of the critical Reynolds number at which laminar flows become unstable has been studied by numerous people, including Sommerfeld, Heisenberg, C. C. Lin, Orszag, and more recently, Trefethen, Hof, Barkley, Eckhardt, etc. Despite this great deal of effort, the theoretical question as to how the critical Reynolds number should be determined still remains open. In this talk, we present an approach using ideas drawn from statistical physics and large deviation theory.

This is joint work with Xiaoliang Wan and Haijun Yu.

✦ ✦ ✦ **All are welcome** ✦ ✦ ✦

For enquires please contact Ms. Claudia Chui, 3411 2348.

<http://www.math.hkbu.edu.hk/>