



北京理工大学

数学与统计学院学术报告

Classification of the analytic steady states of 2D Euler equation

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摘要: Classification of the steady states for 2D Euler equation is a classical topic in fluid mechanics. In this talk, we consider the rigidity of the analytic steady states in bounded simply-connected domains. By studying an over-determined elliptic problem in Serrin type, we show the stream functions for the steady state are either radial functions or solutions to semi-linear elliptic equations. This is the joint work with Tarek Elgindi, Ayman Said and Chunjing Xie.

个人简介: Dr. Huang holds a B.Sc. (Honors) in Mathematics from Shanghai Jiao Tong University and a Ph.D. in Mathematics from Duke University. He is currently a Research Associate at Imperial College London. Dr. Huang's research focuses on the mathematical analysis of models arising from fluid mechanics, particularly on understanding the structure and dynamics of steady and unsteady flows governed by the incompressible Euler equations.