



DEPARTMENT OF APPLIED MATHEMATICS

應 用 數 學 系

**The Hong Kong Polytechnic University
Department of Applied Mathematics**

Colloquium

On incompressible Rethy flows

by

Prof. Lili Du

Sichuan University

Abstract

In this talk, we will introduce some mathematical results on the incompressible Rethy flows. The interesting and old problem was suggested and tried by M. Rethy in 1895 for a flow around a symmetric wedge. Here, we are concerned with the well-posedness theory of the incompressible Rethy flow with more general geometric conditions to the nozzle and obstacle both in 2D symmetric case and in 3D axially symmetric case. This is a joint work with Jianfeng Cheng (SCU) and Wei Xiang (CityU).

Date : 31 March, 2017 (Friday)

Time : 11:00a.m. – 12:00noon

Venue : TU801, The Hong Kong Polytechnic University

***** ALL ARE WELCOME *****