

Department of Mathematics  
City University of Hong Kong

## Colloquium

Organised by Prof. Tong YANG and Dr Xianpeng HU

### On Steady Supersonic Flow Past a Curved Cone

by

Professor Yongqian Zhang  
Fudan University,  
China

#### **Abstract :**

In this talk I will briefly introduce our recent work on Steady supersonic flow past a curved cylindrical symmetric cone. The flow is assumed to be isothermal and to be governed by a steady potential equation. And the cone is assumed to be a small perturbation of the straight one with a vertex angle less than a critical value. We will discuss about the global existence and the asymptotic behaviour of entropy solution to this problem. This talk is based on a joint work with Guiqiang Chen and Jie Kuang.

**Date:** 17 April 2018 (Tuesday)  
**Time:** 4:30 – 5:30pm  
**Venue:** 1310, LI Dak Sum Yip Yio Chin Academic Building  
(AC2)  
City University of Hong Kong

**\*\* All interested are welcome \*\***  
For enquiry : 3442-5488

