

**Department of Mathematics
City University of Hong Kong**

Special Colloquium

Organised by Prof. Tong YANG and Prof. Tao LUO

On the Slip Boundary Conditions for the Compressible Navier-Stokes Equations

by

**Professor Kazuo Aoki
National Taiwan University and
National Cheng-Jung University
Taiwan**

Abstract :

The slip boundary conditions for the compressible Navier-Stokes equations are one of the classical matters in kinetic theory and have been discussed in the literature. However, it is not easy to find the complete formulas that can be used immediately in practical applications. In the present talk, this topic is revisited, and the slip boundary conditions are derived in a complete form, together with the explicit values of the coefficients occurring in the formulas. Then, it is applied to the numerical computation of unsteady motion of a slightly rarefied gas caused by a plate oscillating in its normal direction.

**Date: 16th August, 2017 (Wednesday)
Time: 4:30 – 5:30pm
Venue: 2413, Li Dak Sum Yip Yio Chin Academic Building,
Academic Building 2
City University of Hong Kong**

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

