



Department of Mathematics  
The Chinese University of Hong Kong

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數學系  
香港中文大學

Phone: (852) 3943 7988-9 • Fax: (852) 2603 5154 • Email: dept@math.cuhk.edu.hk  
Rm. 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

# Kinetic Seminar

## Stability of background perturbation for Boltzmann equation

by

*Professor Kung-Chien WU*  
*National Cheng Kung University*

**Abstract :**

We will consider the Boltzmann equation in the perturbation regime. Since the macroscopic quantities in the global Maxwellian are obtained through measurements, there are typically some errors involved. We aim to study how the solution changes as the background varies for the same initial perturbation. In this talk, I will show that the solution changes continuously with variations in the global Maxwellian and provide a sharp estimate for the associated errors. The proof relies on refined estimates for the linearized solution operator.

Date :	November 8, 2023 (Wednesday)
Time :	4:00pm – 5:00pm (Hong Kong SAR)
Venue:	LT4, 3/F, Cheng Yu Tung Building The Chinese University of Hong Kong, Shatin

*All are Welcome*