



DEPARTMENT OF APPLIED MATHEMATICS

應 用 數 學 系

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

Colloquium

**Quasineutral Limit of Drift-diffusion Models for Semiconductors and
the Related Models**

by

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Abstract

In this talk I will discuss quasineutral limit of Drift-diffusion models for semiconductors and the related models such as PNP-NS equations. Quasineutrality assumption is one basic physical assumption, raised by W. Van Roosbroeck (Bell System Tech. J., 1950). I will talk some mathematical theory of quasineutrality for semiconductor and plasma. Some rigorous convergence results on structure stability are reviewed and some new results obtained recently will be given.

Date : 24 August, 2018 (Friday)

Time : 2:30p.m. – 3:30p.m.

Venue : TU717, The Hong Kong Polytechnic University

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