

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

Analysis Seminar

Evolution under Migration and Selection

Dr. LinLin Su

Southern University of Science and Technology

Abstract

We first introduce migration-selection models, which are nonlinear ODE systems or semilinear parabolic PDE systems. Then we survey some main mathematical results and methods for these models. Last, we discuss some open problems, especially a conjecture proposed by T. Nagylaki and Y. Lou (JMB 2007): The global stability of a spatially homogeneous equilibrium under pure uniform selection remains if migration turns on.

Date: November 24, 2017 (Friday)

Time: 4:00 – 5:00pm

Venue: Room 210, Run Run Shaw Bldg., HKU

All are welcome