



香港浸會大學

HONG KONG BAPTIST UNIVERSITY

FACULTY OF SCIENCE

# Department of Physics & Institute of Computational and Theoretical Studies

## *JOINT SEMINAR*

### Modeling the Spread of Infectious Diseases - Measles and Influenza as Examples

BY

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Wednesday, 7 September, 2016  
3:30pm – 4:30pm (Tea will be served)  
T909 Science Tower, HSH Campus

### **Abstract**

Emerging and existing infectious diseases, such as HIV/AIDS, SARS, MERS, Ebola, influenza, and Zika virus, pose huge burden on the human society. In this talk, I will give a brief introduction to the mathematical modeling of the spread of infectious diseases. Through two famous examples, measles in the pre-vaccination era and the 1918 influenza pandemic, I will show the beauty and power of mathematical modeling and likelihood-based inference techniques.

*All Interested Are Welcome!*