

# Graduate Seminar

## Speaker

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**Thursday, November 23, 2017  
1pm, HH-3017**

## **Propagation Dynamics for a Spatially Periodic Integro-difference Competition Model**

### **Abstract:**

In this talk, I will report our recent research on the propagation dynamics for a class of integro-difference competition models in a periodic habitat. An interesting feature of such a system is that multiple spreading speeds can be observed, which biologically means different species may have different spreading speeds. We show that the model system admits a single spreading speed, and it coincides with the minimal wave speed of the spatially periodic traveling waves. A set of sufficient conditions for linear determinacy of the spreading speed is also given.

