PROBABILITY SEMINAR SERIES

TOPIC: Supercritical Behavior of Asymmetric Zero-range Process With Sitewise Disorder

SPEAKER: Krishnamurthi Ravishankar, NYU Shanghai

TIME: 11:00am-12:00pm, Tuesday, March 1, 2016

VENUE: Room 264, Geography Building, Zhongbei Campus

(中北校区，地理楼 264 室)

ABSTRACT OF THE TALK

We establish necessary and sufficient conditions for weak convergence to upper invariant measure for asymmetric one dimensional nearest neighbor zero range process with inhomogeneous jump rates. This extends the previous results for the totally asymmetric case with unit rate function to asymmetric systems with arbitrary bounded increasing rate functions.

(Joint work with C. Bahadoran, T. Mountford and E. Saada)

BIOGRAPHY

Krishnamurthi Ravishankar is Professor emeritus at State University of New York at New Paltz and Visiting Professor of Mathematics at NYU Shanghai. His area of research is Probability theory, in particular Interacting Particle Systems and Statistical Mechanics.