Statistical physics of exponential random graphs

By

Prof Mei YIN
University of Denver

Abstract
Exponential random graphs are powerful in the study of modern networks. By representing a complex global configuration through a set of tractable local features, these models seek to capture a wide variety of common network tendencies. This talk will look into the asymptotic structure of weighted exponential random graphs and formulate a quantitative theory of phase transitions. The main techniques that we use are variants of statistical physics (both equilibrium and non-equilibrium). Based on joint work with multiple collaborators.

Date: Tuesday, 27 November 2018
Time: 4:00p.m.-5:00p.m.
Venue: Room 4475, Academic Building, (near Lifts 25 & 26), HKUST

All are welcome!