THE UNIVERSITY   OF HONG KONG

Institute of Mathematical Research
Department of Mathematics

PROBABILITY AND INFORMATION THEORY SEMINAR

Markov random fields in dimension 1 and higher

Mr. Nishant Chandgotia
The University of British Columbia, Canada

Abstract

Stationary Markov random fields on the Z^d lattice are well understood when they are fully supported. However much lesser is known if we drop the assumption of full support. In 1 dimension, we will see that these measures are actually Markov chains without any assumptions on the support. This is joint work with Guangyue Han, Brian Marcus, Tom Meyerovitch and Ronnie Pavlov. Analogous results do not carry over to higher dimensions. We will present some conditions under which these measures become more amenable to analysis. This is joint work with Tom Meyerovitch.

Date: February 20, 2013 (Wednesday)

Time: 4:00pm

Place: Room 206, Run Run Shaw Bldg., HKU

All are welcome