

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Representation theory of KLR algebras

Professor Peter McNamara
Stanford University

Abstract

Khovanov-Lauda-Rouquier algebras are a family of algebras that appear in categorifying quantum groups. I will talk about the category of finite-dimensional representations of these algebras—classifying the simple representations, giving some understanding of higher Ext groups, and the related combinatorial structures. No previous knowledge of KLR algebras will be assumed.

Date: January 3, 2013 (Thursday)

Time: 2:00 – 3:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome