

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Hall algebras, their representations and quantum groups

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Date: October 28, 2013 (Monday)

Time: 3:30 – 4:30pm

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

Abstract

After reviewing the basics of Ringel's theory of Hall algebras, I will present a new construction of representations of Hall algebras using duality functors. In the case of quivers, I will show that this provides a realization of certain highest weight modules of twisted quantum Kac-Moody algebras.

All are welcome