Seminar/Talk

The Heisenberg category and elliptic Hall algebra

Peter Samuelson
University of Edinburgh

Host: Tamas Hausel

The Heisenberg category H is a monoidal category defined by Khovanov using representation theory of symmetric groups (a deformation H_q was given by Licata and Savage using Hecke algebras). Both H and H_q categorify the Heisenberg algebra. The Hochschild homology (or, trace) of H_q is an algebra, and we show it is a specialization of the elliptic Hall algebra E. In this setting, the action of E on symmetric functions comes from a 2-representation of H_q defined using Hecke algebras. (This is joint work with Cautis, Lauda, Licata, and Sussan.)

Thursday, May 4, 2017 02:45pm - 04:45pm
Seminar room Big Ground floor / Office Bldg West (I21.EG.101)

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