

Queen's Algebraic Geometry — Seminar —

A TALE OF TWO CATEGORIFICATIONS

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Abstract

We discuss how categorifications of affine Lie algebras and the Heisenberg algebra interact naturally via polynomial functors, providing an example of $\widehat{\mathfrak{gl}}_p$ -categorification. We will also formulate Schur-Weyl duality in this language and describe how it is compatible with these higher structures. This talk will not assume any knowledge of categorification. Our results are joint with Jiuzu Hong.

Monday 26 March 2012
15:30 – 16:30
319 Jeffery Hall