

Colloquium

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Wednesday, November 4, 2009

Surge 284

“Categorification of Hopf algebras
and quantum groups”

Abstract: Induction and restriction functors corresponding to inclusions of symmetric groups give rise to a bialgebra structure on the sum of Grothendieck groups of their representation categories. We'll describe a similar construction where induction and restriction give rise to the bialgebra isomorphic to the universal enveloping algebra of the Lie algebra of upper-triangular matrices.