

# Representation Theory, Geometry & Combinatorics Seminar

Organizer: Mark Haiman & Kolya Reshetikhin

Wednesday, 4:00–6:00pm, 939 Evans

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Oct. 3      **Joshua Sussan**, UCB

*A categorification of the colored Jones polynomial*

We review the categorification of tensor products of the natural representation for  $U_q(\mathfrak{sl}(2))$  and its extension to a tangle invariant. A categorification of tensor products of arbitrary finite dimensional, irreducible representations was given by I. Frenkel, M. Khovanov, and C. Stroppel. We show how to use these results to get a categorification of the colored Jones polynomial.