

Math/Phys seminar

Tue, Sept 9, 1.30-2.30 at SCG060

Speaker: Elijah Bodish (IU Bloomington)

Title: Categorified quantum symmetric pairs

Abstract: Quantum symmetric pairs are the quantum group analog of symmetric spaces. It was discovered by Khovanov-Lauda and Rouquier that (Drinfeld-Jimbo) quantum groups can be categorified. These categorifications have had applications to representation theory, topology, and algebraic geometry. The purpose of the talk will be to introduce quantum symmetric pairs (i-quantum groups) via examples and concrete realizations, and then to discuss some instances in which we are beginning to understand how these algebras can be categorified as well.