Mathematics, Statistics, and Computer Science   **@ UIC**

Quantum Topology / Hopf Algebra Seminar

The Yokonuma–Hecke algebra and bt–algebra in Knot theory

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Abstract: I will show recent applications of the Yokonuma–Hecke algebra in the construction of new invariants for classical links; these invariants are constructed by using the Jones construction for the Homflypt polynomial (Jones recipe). Also, I will discuss the idea of framization of a knot algebra. Finally, I will show the construction of the so–called bt–algebra which is a knot algebra attached naturally to the Yokonuma–Hecke algebra.

Tuesday, March 28 at 2:00 PM in SEO 612