Seminar

Dr. Paul Wedrich

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Categorified colored HOMFLY invariants of rational tangles

Monday, June 30, 2014

at 10:30 h

ESI, Boltzmann Lecture Hall

Abstract: The colored Jones and HOMFLY polynomials are invariants of knots in Sˆ 3 that are defined via the representation theory of quantum sl(N). I will start by explaining how these invariants generalize to the case of tangles, i.e. knot fragments in Bˆ 3. For the case of rational tangles, I will introduce a picture-way of computing a categorified version of colored HOMFLY polynomials, thereby proving a tangle-analogue of a conjecture of Gukov and Stosic. Based on joint work with Mihajlo Cekic and Jake Rasmussen.

N. Carqueville

June 20, 2014