

1089-05-308

Radmila Sazdanovic* (radmilas@math.upenn.edu), 209 south 33rd street, department of mathematics, Philadelphia, PA 19104, and **Vladimir Baranovsky**. *Categorifications of the chromatic polynomial.*

We will discuss the proof of the conjecture due to M. Khovanov relating the algebraic and topological categorification of the chromatic polynomial. We show that there exists a spectral sequence relating the chromatic graph homology defined by L. Helme-Guizon and Y. Rong and the homology of a graph configuration space introduced by M. Eastwood, S. Huggett. (Received February 18, 2013)