1077-57-1333   **Moshe Cohen** and **Adam M Lowrance***, Department of Mathematics, 14 MacLean Hall, Iowa City, IA 52242-1419. *A categorification of the Tutte polynomial.* Preliminary report.

The Tutte polynomial is a graph and matroid polynomial with close ties to the Jones polynomial. We construct a categorification of the Tutte polynomial that is similar in spirit to odd Khovanov homology. We discuss morphisms in this categorification and show how the Tutte polynomial categorification gives an invariant of alternating links. (Received September 19, 2011)