1046-57-197   **Emily Peters*** (`eep@math.berkeley.edu`), Department of Mathematics, University of California, Berkeley, 970 Evans Hall, Berkeley, CA 94720, and **Scott Morrison** and **Noah Snyder**. *Planar Algebras and knots.* Preliminary report.

Planar algebras are algebras which have an action by certain kinds of planar pictures. Knot diagrams are an example of a planar algebra, and a planar algebra homomorphism from knot diagrams to the Temperley-Lieb algebra gives rise to the Jones polynomial. Homomorphisms to other planar algebras give different knot invariants. I will show how to construct these invariants, and prove some interesting identities among colored Jones polynomials. (Received August 18, 2008)