1083-55-167   **Xuanting Cai** and **Robert Todd*** (`rtodd@unomaha.edu`). *Some properties and applications of a graph basis for the Temperley–Lieb algebra.* Preliminary report.

We will review the definition of a basis for the Temperley-Lieb algebra originally proposed by Lickorish. Some properties of this basis will be explored and an application to the Mahler measure of the recursively defined elements of the Temperley-Lieb algebra will discussed. (Received August 27, 2012)