1084-14-24   **Nathan Owen Ilten*** (`nilten@math.berkeley.edu`), Department of Mathematics, University of California, Berkeley, CA 94720. *Mutations of Laurent Polynomials and Flat Families with Toric Fibers.*

In recent work, I have shown that certain birational transformations mapping a Laurent polynomial to another Laurent polynomial correspond to deformations between the associated toric varieties. I will discuss this result and its relevance in the larger context of mirror symmetry and the classification of Fano varieties. (Received July 30, 2012)