962-16-1033   **Mary-Katherine E Brandl*** (`brandl@noether.uoregon.edu`), Department of Mathematics, Universtiy of Oregon, Eugene, OR 97403. *Primitive and Poisson Spectra of Twists of Polynomial Algebras.* Preliminary report.

We analyze a family of twists of a commutative polynomial ring by a non-diagonalizable automorphism. The non-commutative multiplication in the twisted algebra defines a Poisson bracket on the polynomial ring and hence a symplectic structure on $\mathbb{C}^n$. We compute the primitive spectrum of the twisted algebra, and demonstrate that the primitive ideals are parametrized by the symplectic leaves. (Received October 01, 2000)