

1014-11-1154 **Eduardo Duenez*** (eduenez@math.utsa.edu), Department of Applied Mathematics, UTSA,
6900 North Loop 1604 West, San Antonio, TX 78249-0664, and **Steven J Miller**. *Symmetry in
Twisted Families of L-functions*. Preliminary report.

The study of underlying symmetry in families of (automorphic) L -functions was pioneered by Katz and Sarnak, who proposed that the statistics of low-lying critical zeros in any natural such family should correspond to the statistics of eigenvalues near 1 of matrices in a classical compact group (unitary, orthogonal, or symplectic). One of their results pertains to the symmetry of a family obtained by twisting a fixed L -function by Dirichlet characters, viz, by automorphic representations of $GL(1)$. In this talk we present some results about the symmetry in various families obtained by twists involving classical modular forms (automorphic representations of $GL(2)$). (Received September 27, 2005)