## 1046-30-1463 **Philip P. Mummert\*** (phmummert@taylor.edu), Taylor University, 236 W. Reade Ave., Upland, IN 46989. *Holomorphic Motions and Hénon Maps.*

The McMullen-Sullivan holomorphic motion for post-critically stable complex polynomials with connected Julia sets respects dynamics and follows level sets of the Böttcher coordinate. This holomorphic motion is formed by a unique extension due to Bers and Royden. Analogously, in  $\mathbb{C}^2$ , the Buzzard-Verma holomorphic motion for hyperbolic, unstablyconnected polynomial diffeomorphisms follows level sets of the Bedford-Smillie solenoid coordinate. One consequence is the injectivity of this solenoid map for those Hénon maps that are perturbations of one-variable hyperbolic polynomials with connected Julia sets. (Received September 15, 2008)