1030-32-407 **Han Peters** and **Liz R Vivas*** (lvivas@umich.edu), 530 Church St., Department of Mathematics, University of Michigan, Ann Arbor, MI 48109, and **Erlend Wold**. *Attracting basins of volume preserving automorphisms of* $\mathbb{C}^k$.

We study topological properties of attracting sets for automorphisms of $\mathbb{C}^k$. Our main result is that a generic volume preserving automorphism has a hyperbolic fixed point with a dense stable manifold. On the other hand, we show that an attracting set can only contain a neighborhood of the fixed point if it is an attracting fixed point. We will see that the latter does not hold in the non-autonomous setting. (Received August 07, 2007)