1086-37-245 **Kelly Brooke Yancey*** (kbyancey1@gmail.com). *Uniformly Rigid Homeomorphisms.* Preliminary report.

A homeomorphism T of a compact metric space X is said to be uniformly rigid if there exists an increasing sequence of natural numbers (n_m) such that T^{n_m} converges to the identity uniformly on X. We will discuss the construction of a large family of weakly mixing homeomorphisms of the two-torus and the Klein bottle that are uniformly rigid. We will also discuss the structure of these uniform rigidity sequences. Specifically we will show that if a sequence of natural numbers satisfies a certain growth rate, then we can construct a weakly mixing homeomorphism of the two-torus that is uniformly rigid with respect to that sequence. (Received August 12, 2012)