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Nicholas Long* (nelong@math.umd.edu), University of Maryland, 4305 Mathematics Building, College Park, MD 20742. *Fixed Point Sets of Finite Order Automorphisms on Mixing Shifts of Finite Type.*

In many areas of mathematics, theorems on the existence and classification of fixed points of maps provide a way of understanding symmetry groups. In order to better understand the automorphism group of mixing shifts of finite type (MSFT), it would be useful to classify what subshifts can be fixed by finite order automorphism. Several results are given including the classification of flip invariant fixed point sets of the full 2-shift and we will discuss the classification of fixed point sets on MSFT up to shift equivalence. (Received September 19, 2007)