1046-28-414   **Matthew D Foreman*** (`mforeman@math.uci.edu`), Mathematics Department, UC Irvine, Irvine, CA 92697. *Models for measure preserving transformations.*

There are several models for the collection of measure preserving transformations and the collection of ergodic measure preserving transformations. In joint work with Dan Rudolph and Benjamin Weiss, we show that these models are equivalent in the sense that there are bijections that preserve category for "dynamical properties".

A new model for the ergodic transformations is introduced, the "rational invariant measures". This is shown to be universal and open problems about the new model are discussed. (Received September 01, 2008)