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Matthew Foreman*, Math Dept., UC Irvine, Irvine, CA 92617. *Rudolph's Thesis.*

The set of measure preserving transformations of a standard Lebesgue space can be modeled in many different settings. These settings introduce topological and algebraic structure on the collection.

Rudolph conjectured that all of the different settings were equivalent. This conjecture was supported by work of Glasner and King who showed that in two important cases “genericity” was the same for dynamical properties.

In joint work with Rudolph and Weiss, this talk makes Rudolph's thesis precise, discusses some well known models for the measure preserving transformations, introduces some new models and verifies Rudolph's Thesis in the models we know about. (Received February 03, 2009)