

1092-37-303

Andrew Dykstra* (adykstra@hamilton.edu), 198 College Hill Road, Clinton, NY 13323, and
Ayse Sahin. *Kakutani equivalence in the nearly continuous category: part II.*

We outline a proof of the following result: The Morse minimal system and the binary odometer are nearly continuously Kakutani equivalent. We construct our equivalence using induction, as is typical of orbit equivalence constructions in the measure theoretic category. But in addition to being a measurable orbit equivalence, our equivalence must also preserve the topological structure of the underlying actions. Specifically, it must be a homeomorphism between full-measure, dense G_δ subsets, and must restrict to a measurable isomorphism between induced systems where the sets on which we induce have positive measure and are within measure zero of an open set and within measure zero of a closed set. To achieve all of this, our construction relies heavily on the template machinery introduced by Roychowdhury and Rudolph. In addition to discussing what a template is in general, we describe the form templates must take in our context to address the dynamical differences between the Morse system and the odometer. (Received August 12, 2013)