

1092-37-64

Andrew Dykstra and **Ayşe A Şahin*** (asahin@depaul.edu). *Kakutani equivalence in the nearly continuous category: Part I*. Preliminary report.

A nearly continuous dynamical system is the action of a group by measure preserving homeomorphisms on a Polish probability space. The category was introduced by Keane and Smorodinsky and the foundations were established by Denker and Keane in the 1970's. The field gained renewed interest in the 1990's when Keane and Hamachi proved that the binary and ternary odometers are nearly continuously orbit equivalent. In this talk we will describe the current state of nearly continuous orbit equivalence theory. We will also describe templates, a powerful combinatorial tool. Introduced by Roychowdhury and Rudolph, templates have played an essential role in the proof of several results as the means to generalize machinery introduced by Keane and Hamachi. They are also central in the proof of the latest result in this category: that the Morse minimal system and the binary odometer are nearly continuously Kakutani equivalent. (Received July 25, 2013)