1113-37-135 **Jeannette Janssen** and **Anthony Quas***, Mathematics and Statistics, University of Victoria, Victoria, BC V8W 3R4, Canada, and **Reem Yassawi**. *A dichotomy for random adic transformations.*

A class of dynamical systems is obtained by taking the so-called adic transformations of an ordered Bratteli diagram. These adic transformations may be extended to homeomorphisms if there are unique maximal and minimal paths. Herman, Putnam and Skau showed that these transformations provide models of any Cantor minimal dynamical system.

Given an unordered Bratteli diagram, we study the dynamical systems obtained by endowing the diagram with a random order. We relate the question of unique maximal and minimal paths to a model in population genetics and establish a dichotomy for the number of maximal and minimal paths: if the levels of the diagram grow too slowly, there is almost surely a unique maximal and minimal path; if they grow too fast, there are almost surely uncountably many maximal and minimal paths. (Received August 17, 2015)