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Joanna Marie Furno* (furnoj@dickinson.edu). *Orbit Equivalence Classes of p -adic Transformations.*

For a fixed prime p , we examine the ergodic properties and orbit equivalence classes of p -adic transformations with respect to independent and identically distributed (i.i.d.) product measures other than Haar measure. By calculating ratio sets, we determine the orbit equivalence classes and see possible relationships between the orbit equivalence classes of a transformation and its iterates, with respect to an i.i.d. product measure. (Received September 17, 2013)