

1125-37-1421 **Joanna Furno*** (jfurno@iupui.edu). *Radon-Nikodym derivatives for rational p -adic translations.*

For a fixed prime p , the group of p -adic integers contains the integers and rational numbers without any factors of p in the denominator. The set of p -adic integers can also inherit Bernoulli product measures from the product space on p symbols. This talk will discuss when an ergodic translation by a rational number is nonsingular for a Bernoulli product measure on the p -adic integers. For these, the Radon-Nikodym derivatives and orbit equivalence classes will be given. (Received September 16, 2016)