Abstract

It’s well known that for Bernoulli systems, metric entropy is a complete invariant. That is, two Bernoulli systems are isomorphic if and only if they have the same metric entropy. However, isomorphism problem for dynamical systems apart from Bernoulli, becomes very complicate (and in fact not classifiable). In general, Kakutani equivalence (KE) may give much better description on both positive entropy and zero entropy systems. In this talk, we will focus on a very special systems, skew products. We will discuss recent results as well as questions on the isomorphism/KE of such systems. Based on joint work with A. Kanigowski.