

An invitation to Rokhlin entropy

Yonatan Gutman

Institute of Mathematics of the Polish Academy of Sciences

Abstract

We introduce the notion of Rokhlin entropy due to Seward (2014) and discuss some of its surprising properties. A major open problem is if the Rokhlin entropy of any Bernoulli shift equals the Shannon entropy of its base. Following Seward we show how a positive answer implies the famous Gottschalk's surjunctivity conjecture (1973). This is an advertisement for the "Entropy theories for countable group actions" seminar, meeting once a week at IM PAN Warsaw.