Department Colloquium

Speaker: Anunsh Tserunyan, University of Illinois at Urbana-Champaign
Date: Friday, September 30
Time: 2:30 p.m.
Place: Jeffery 234
Title: Actions of countable groups, generating partitions and entropy

Abstract: In search of a concrete model for a given action of a countable group G on a space X, one may wonder if it is embeddable into a finite shift action. This is equivalent to the existence of a finite partition of X into well-behaved sets such that every point in X can be determined by its trajectory through the partition when acted upon by G. Entropy theory tells us that there is a measure-theoretic obstruction to this, and it was asked by B. Weiss in the 80s if it is the only obstruction. We show that the answer is positive for a large class of actions.