

Seminar

Dr. Matteo Cavaleri

U Rome/U Vienna

Computability of Folner sets and sofic approximations

Wednesday, February 24, 2016

at 15:00 h

ESI, Boltzmann Lecture Hall

Abstract: In the class of finitely generated groups we recall equivalent definitions for sofic groups, amenable groups, word problem and a quantification of soficity, the sofic dimension growth. We present the Minsky machines in order to define computability and to give an idea of the construction of the Kharlampovich group, a finitely presented solvable group with unsolvable word problem. We prove the computability of Folner sets and the non computability of sofic approximations for Kharlampovich group. More generally we study the classes of groups with computable Folner sets, with subrecursive sofic dimension growth and their stability properties.

G. Arzhantseva

February 22, 2016