

Department of Mathematics and Computer Science

September 25, 2009

Friday, September 25, 4:00

COLLOQUIUM

Speaker: Evgeny Gordon

Old Main 2231

Title: “Universal sofic groups and asymptotic properties of permutations”

Abstract:

The class of sofic groups was introduced by Gromov ten years ago (groups of this class were called “sofic” by B. Weiss — “sofic” means “finite” in Hebrew) in investigations of the old open problem due to Gottschalk, concerning cellular automata on groups. The problem of existence of a non-sofic group is open.

An interesting class of sofic groups was introduced by Elek and Szabo. These groups are simple complete metric groups with finite invariant measure that are not compact.

In the talk some conjectures about the properties of invariant measures on these groups will be discussed. These properties are connected with some interesting asymptotic properties of permutations.

SNACKS IN FACULTY LOUNGE AT 3:30 PM.

EVERYONE WELCOME (EVEN IF YOU ARE UNABLE TO ATTEND THE TALK)
