Graduate Seminar

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Thursday, January 23, 2014 1:00 p.m., HH-3017

Relative growth rate of subgroups of free groups

Abstract:

The notion of amenable groups was introduced by John von Neumann in 1929 in his investigation of the Banach-Tarski paradox. Since then amenable groups became a subject of interest to many mathematicians including Rostislav Grigorchuk, who in 1978 obtained a characterization of amenability of groups by the means of relative growth rate of subgroups of free groups. In this talk we will have a look at some of the results obtained by Rostislav Grigorchuk and their connection to speaker's Master's thesis.