Welcome to International Group Theory Web Seminar

Alexei Miasnikov (Stevens Institute)

"Dehn Monsters."

Feb 3, 12:00am (New York Time).

Abstract:

I will discuss a new type of finitely generated recursively presented groups with undecidable Word Problem, called Dehn monsters. In fact, the Word Problem is so bad in such a group that there is no any algorithmic way to produce an infinite set of pairwise distinct elements of the group. Dehn monsters   are the first examples of recursively presented groups where the Word Problem is decidable only on exponentially negligible sets of inputs. We use Golod-Shafarevich presentations and simple computably enumerable sets from the classical recursion theory to construct these very exotic groups.

Based on a joint work with Denis Osin

Next presentation: TBA

Algebraic Cryptography Center