

COLLOQUIUM

MATH SIUC

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Almost-sure Computable Structure Theorists

Abstract

Novikov and Boone independently proved that there are finitely presented groups in which there is no algorithm to decide whether a word in the generators is equal to the identity. More recent work, though, has shown that in many of these cases, there is an algorithm that will decide this question for almost all words.

It is possible to generalize this analysis for other kinds of structures. The existence of structures where the basic properties are or are not computable, or where structures are classically isomorphic, but not isomorphic by a computable function, are well known. The present talk will describe recent joint work with Cenzer and Harizanov to explain what happens if we only ask the algorithm to be right almost always.

10.13.22

Time: 3:00PM
Date: October 13, 2022
Place: Neckers 156

Reception immediately following in Math Library.