



Università degli Studi di Palermo

Dipartimento di Matematica e Informatica

Words and Automata Research Group

ANNUNCIO DI SEMINARIO

Titolo: Random subgroups of a free group and automata

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Martedì 5 Novembre 2013, ore 12.00

Aula 7

Via Archirafi 34, 90123 Palermo

Abstract:

Let A be a finite alphabet. The free group $F(A)$ is the set of finite reduced words made of letters from A and their (formal) inverses. In this talk we show how one can study with probabilistic and combinatorial methods algebraic properties of a random finitely generated subgroup of $F(A)$. One of the key tool is the representation of such a subgroup by a special automaton obtained by Stallings' foldings. We shall introduce some combinatorial tools to study quantitatively these special automata. And We shall compare the behaviour of finitely generated random subgroups under some natural probability distributions.

Tutti gli interessati, in particolare gli studenti, sono invitati a partecipare