DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
UNIVERSITY OF SOUTHERN DENMARK, ODENSE

Mathematics seminar

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Random subgroups and elements in Thompson's group F and common edges in triangulations

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U17

Abstract

There are a number of possible notions of constructing k-generator subgroups "at random" from a fixed group G. Given such a process, we can try to understand properties that a random subgroup has.

In earlier joint work with Elder, Rechnitzer and Taback, we estimated densities of particular isomorphism classes of subgroups in Thompson's group F with respect to various methods of selecting elements at random. Thompson's group F can be viewed via tree pair diagrams, or equivalently via pairs of triangulations of regular polygons. Common edges in trees or triangulations give rise to particular descriptions of elements in F, and in joint work with Andrew Rechnitzer and Thomas Wong we analyze the asymptotics of the common edges in such settings.

Host: David Kyed