Algebra/Topology Seminar

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Subgroups and Supergroups of Thompson's Group V

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1:15 p.m. in ES-143

Abstract. Thompson's group V was the first example of a finitely presentable infinite simple group. It can be characterized as a group acting on infinite sequences over a finite alphabet by finite prefix exchanges. These finite prefix exchanges can be illustrated using finite state automata and tree pair diagrams.

One can form subgroups and supergroups of V by restricting or augmenting the finite prefix exchanges. I will talk about when these subgroups and supergroups are isomorphic to Thompson's group V.