

## Geometry, Topology and Dynamics Seminar

*A new solution to the von Neumann-Day problem for finitely presented groups*

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**Abstract:** In this talk, I will describe a finitely presented subgroup of Monod's group of piecewise projective homeomorphisms of the real line. This in particular provides a new example of a finitely presented group which is nonamenable and yet does not contain a nonabelian free subgroup. The example is moreover torsion free. A portion of this is joint work with Justin Moore. Recent work on the higher finiteness properties of this group will be discussed if time permits.

Monday, December 1 at 2:00 PM in SEO 636