

Geometry, Groups and Dynamics/GEAR Seminar  
(held at the Illinois hub of GEAR )

**Tuesday, December 2, 2014, 1:00 pm, 243 Altgeld Hall**

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

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.

(no video available)