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General Interest Seminar

Professor Ross Geoghegan (SUNY, Binghamton)

will speak on

New invariants of Thompson's group F

Mon 26th May 2008 at 4:00PM

Location: Mathematical Sciences Seminar Room

This talk is about the Thompson group F , the group of all PL dyadic increasing homeomorphisms of the closed unit interval. This fascinating (finitely presented!) group has relevance in a number of areas of mathematics, and has been widely studied in recent years. I will describe properties of F which lead to the following Theorem: for each $n \geq 0$ there is a subgroup of F of type FP_n which is not of type FP_{n+1} . (The FP properties of a group are the "homological finiteness properties"; FP_1 is "finitely generated", etc.) The proof involves the Bieri-Neumann-Strebel-Renz invariants of groups; these will be introduced and discussed, along with some other features of F . This is joint work with Robert Bieri and Dessislava Kochloukova.

This talk is part of the **General Interest** series. For more, see
<https://maths.ucd.ie/seminars>