Mathematics seminar

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The Thompson groups and the Cuntz algebra O-2

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Abstract
As shown by V. Nekrashevych [2004], the Thompson group V can be realized naturally as a subgroup of the unitary group of the Cuntz-algebra O_2. We study the unital endomorphisms of O_2 which preserve the Thompson group F using "snake" diagrams. The main focus will be on a certain subsemigroup of endomorphisms preserving F, which we show to be in bijection with the palindromes of base 3 of certain lengths. This is joint work with Selcuk Barlak.