

Towards the universal minimal flow of the homeomorphism group of the Lelek fan

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The Lelek fan is the unique up to homeomorphism compact and connected subspace of the cone over the Cantor set that has a dense set of endpoints. I will report on a work in progress towards describing the universal minimal flow of the homeomorphism group of the Lelek fan. The key components are a generalization to multiple operations of a finite version of the Gowers' Ramsey theorem and a dualization to the projective setting of the Kechris–Pestov–Todorćević theory.