An uncountable family of smooth fans that admit transitive homeomorphisms

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In the talk I will explain our construction of a family of uncountably many pairwise non-homeomorphic smooth fans that admit transitive homeomorphisms. Additionally, I will present our construction of an example of a smooth fan, the star of Cantor fans, and show that it admits a transitive homeomorphism.

References

 I. Banič, G. Erceg, J. Kennedy, C. Mouron, V. Nall, An uncountable family of smooth fans that admit transitive homeomorphisms, preprint, arXiv:2309.04003.

^{*}This is joint work with Iztok Banič (University of Maribor), Judy Kennedy (Lamar University), Chris Mouron (Rhodes College) and Van Nall (University of Richmond).