A transitive homeomorphism on the Lelek Fan

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This is joint work with Iztok Banic, and Goran Erceg. We construct a transitive homeomorphism on the Lelek Fan. In particular, use a result from a previous paper where it is shown that the Lelek Fan is homeomorphic to an infinite Mahavier product of a closed relation on [0,1]. Then we show that the shift map on the Mahavier product is transitive, and then construct a homeomorphism from that. (joint work with Iztok Banic and Goran Erceg)

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