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Infinite sequence of fixed point free pseudo-Anosov homeomorphisms on a family of genus two surfaces. (English) [Zbl 1217.37040](#)

Kolyada, Sergiy (ed.) et al., Dynamical numbers. Interplay between dynamical systems and number theory. A special program, May 1–July 31, 2009. International conference, MPI, Bonn, Germany, July 20–24, 2009. Proceedings. Providence, RI: American Mathematical Society (AMS) (ISBN 978-0-8218-4958-3). Contemporary Mathematics 532, 231-242 (2010).

Summary: We construct an infinite sequence of pseudo-Anosov homeomorphisms without fixed separatrix, and leaving invariant a family of genus two translation surfaces with a single zero. This extends previous work of *J. Los* [Ergodic Theory Dyn. Syst. 30, No. 6, 1739–1755 (2010; [Zbl 1213.37071](#))]. The construction uses the Rauzy-Veech induction.

For the entire collection see [[Zbl 1205.00087](#)].

MSC:

- [37E05](#) Dynamical systems involving maps of the interval (piecewise continuous, continuous, smooth)
[37D40](#) Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)

Cited in **2** Documents

Keywords:

[pseudo-Anosov homeomorphism](#); [Rauzy-Veech induction](#)