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**On parallelizability of flows of free mappings.** (English) Zbl 1097.39005

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Summary: We consider a flow of free mappings defined on the plane. We prove that the boundary of every equivalence class of a certain equivalence relation is a union of orbits and that at most two of the boundary orbits of a class can be contained in this class. The main result says that a flow of free mappings restricted to each equivalence class of the relation is conjugate with a flow of translations. As a corollary we obtain the fact that the iterates of each arc contained in an equivalence class tend to infinity.

**MSC:**

[39B12](#) Iteration theory, iterative and composite equations

[54H20](#) Topological dynamics (MSC2010)

[37E30](#) Dynamical systems involving homeomorphisms and diffeomorphisms of planes and surfaces

Cited in **8** Documents

**Keywords:**

Parallelizable flow; free mapping; Sperner homeomorphism; orbits; iterates

**Full Text:** [DOI](#)