

Bonfert-Taylor, Petra; Canary, Richard D.; Martin, Gaven; Taylor, Edward C.; Wolf, Michael
Ambient quasiconformal homogeneity of planar domains. (English) Zbl 1198.30017
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An open set $\Omega \subset \bar{\mathbb{C}}$ is ambiently K -quasiconformally homogeneous if, for all $x, y \in \Omega$, there exists a K -quasiconformal homeomorphism $f : \bar{\mathbb{C}} \rightarrow \bar{\mathbb{C}}$ such that $f(x) = y$ and $f(\Omega) = \Omega$.

The authors prove that the ambient quasiconformal homogeneity constant of a hyperbolic planar domain, which is not simply connected, is uniformly bounded away from 1.

Reviewer: [Matti Vuorinen \(Turku\)](#)

MSC:

[30C62](#) Quasiconformal mappings in the complex plane
[30F45](#) Conformal metrics (hyperbolic, Poincaré, distance functions)

Cited in **3** Documents**Keywords:**

[quasiconformal homogeneity](#)

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