Rigidity for circle homeomorphisms with a break-type singularity. (Russian)


The main result is the following. Let $f$ be a $C^{2+\epsilon}$-homeomorphism of the circle except for a singular point $x_0$, where the left and right derivatives $L$ and $R$ are different. The quantity $c := \sqrt{L/R}$ is invariant under smooth conjugations. If $f$ and $h$ are two homeomorphisms of the above property with common $c$ and common rotation number having periodic continued fraction expansion, then they are $C^{1+\delta}$ conjugate.

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