CONTINUUM-WISE
EXPANSIVE DIFFEOMORPHISMS

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Abstract

In this paper, we show that the C^1 interior of the set of all continuum-wise expansive diffeomorphisms of a closed manifold coincides with the C^1 interior of the set of all expansive diffeomorphisms. And the C^1 interior of the set of all continuum-wise fully expansive diffeomorphisms on a surface is investigated. Furthermore, we have necessary and sufficient conditions for a diffeomorphism belonging to these open sets to be Anosov.