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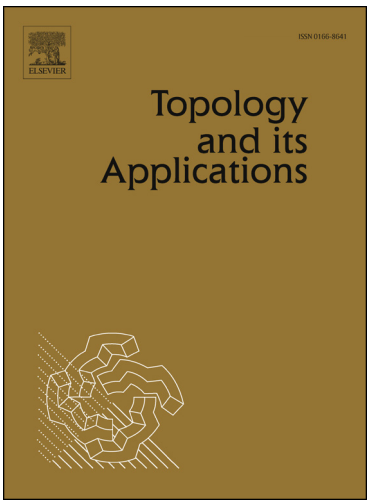

Homology and orientation reversing periodic maps on surfaces

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Abstract

In this paper, we give a classification of orientation reversing periodic maps on closed surfaces which generalizes the theory of Nielsen for the orientation preserving periodic maps.

On one hand, we give a collection of data for each orientation reversing periodic map such that two periodic maps with the same data must be conjugate to each other. On the other hand, we give the criterion to judge when two different collections of data correspond to the same conjugacy class.

As an application of the results of this paper, we shall show that a given orientation reversing periodic map on Σ_g with period larger than or equal to $3g$ must be conjugate to the power of a list of particular types of periodic maps.

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