

Periodic point free continuous self–maps on graphs and surfaces

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Let \mathbb{M} be either a connected compact graph, or a connected compact surface with or without boundary, orientable or not.

Using the action on the homology of a continuous map, we characterize the continuous maps $f : \mathbb{M} \rightarrow \mathbb{M}$ without periodic points, i.e. the so called *periodic point free* continuous self–maps of \mathbb{M} .

This talk will be based on the article [1].

References

- [1] J. Llibre, *Periodic point free continuous self–maps on graphs and surfaces*, to appear in *Topology and its Applications*.