Application of anisotropic norms in systems with variable topological degree

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Abstract

In this presentation, we explore the spectral properties of the transfer operator associated with a map that exhibits a variable topological degree. The application of Birkhoff projective methods has received significant attention within the context of hyperbolic maps, one-dimensional piecewise expanding maps, and non-uniformly expanding maps. This approach allows us to uncover important statistical properties, including the existence of equilibrium states, the decay of correlations, the central limit theorem, and the linear response formula. In our study, we apply this technique to gain insights into the spectrum of the transfer operator, thus facilitating the derivation of results related to the statistical properties of our systems.

References

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