

# On The Thermodynamical Formalism for Expanding Lorenz Maps

FABIÓLA DE OLIVEIRA PEDREIRA \*

## Abstract

In this work, we study the behaviour of the singular values of expanding Lorenz maps of the interval. Particularly, the singularities allow the existence of measures with positive entropy, rapid recurrence to the singular region and infinite Lyapunov exponents. We show that generically, the singular values of these maps do not belong to the statistical basin of attraction of its SRB measure.

## References

- [1] Brandão, P., *Topological attractors of Contracting Lorenz maps*, Annales de l'Institut Henri Poincaré. Analyse Non Linéaire 35:1409-1433, 2018.
- [2] de Melo, W.; van Strien, S.. *One Dimensional Dynamics*, Springer-Verlag, 1993.
- [3] Oliveira, K.; Viana, M.. *Foundations of Ergodic Theory*. Cambridge University Press, 2016.
- [4] Pinheiro, V.. *Expanding Measures*. Annales de l Institut Henri Poincaré. Analyse non Linéaire, v. 28, p. 889-939, 2011.

**Tipo de Apresentação:** APRESENTAÇÃO ORAL

---

\*e-mail: [fabiolauefs@gmail.com](mailto:fabiolauefs@gmail.com)