



## DYNAMICAL SYSTEMS SEMINAR

# Thermodynamic formalism for Markov chains over standard Borel spaces

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**Abstract.** This seminar shall present some recent results where a *thermodynamic formalism* is developed for limited potentials defined over  $E^N$ , where  $E$  is a standard Borel space.

We shall apply our results in order to construct invariant measures for homogeneous Markov chains taking values in standard Borel spaces. We shall also apply our results to the study of asymptotic stability of certain Markov operators.

## References

- [1] L.M. Cioletti, E.A. Silva, M. Stadlbauer. *Thermodynamic Formalism for Topological Markov Chains on Borel Standard Spaces (submitted)*. Link arxiv: <https://arxiv.org/abs/1810.03757>
- [2] B. Simon. *The Statistical Mechanics of Lattice Gases*. Princeton University Press.
- [3] M.R. Hilario, G.A. Braga. *Modelos de Spin Unidimensionais de Curto Alcance*.