

# Finiteness of measures maximizing the entropy for surface diffeomorphisms

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## **Resumo/Abstract:**

Newhouse has shown that smooth surface diffeomorphisms have ergodic measures maximizing the entropy. With Jérôme Buzzi and Omri Sarig we prove that their number is finite. This is a consequence of a generalization of the coding and of the spectral decomposition into basic sets known for hyperbolic diffeomorphisms.