

Seminário de sistemas dinâmicos e estocásticos

Departamento de Matemática - IMECC - UNICAMP

Topological obstruction for robustly transitive endomorphisms on surfaces.

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Resumo:

We give necessary conditions for the existence of robustly transitive maps on surfaces. We find topological obstructions that determine which surfaces support robustly transitive endomorphisms. Concretely, dominated splitting is a necessary condition in order to have C^1 robustly transitive endomorphisms with critical points on surfaces, and if a surface support a robustly transitive map, then it is the Torus or the Klein bottle. In particular, there not exist robustly transitive maps on the 2-sphere. Moreover, every robustly transitive endomorphism is homotopic to a linear map having at least one eigenvalue with modulus larger than one. This is a joint work with Wagner Ranter (UFAL).

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Local: Sala 221 do IMECC.

Consulte a programação em [www.ime.unicamp.br/ssde]