

Seminário de sistemas dinâmicos e estocásticos

Departamento de Matemática - IMECC - UNICAMP

Embedded contact homology and symplectic embedding problems

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Resumo:

Embedded contact homology is an invariant of contact 3-manifolds by M. Hutchings. It is generated by the Reeb orbits and was used by Taubes to prove the 3-dimensional Weinstein conjecture. In 2010, Hutchings showed it is also useful for studying embeddings of symplectic 4-manifolds they bound. Many new embedding results followed but there are limitations due to difficulties in computing ECH. In this talk, we survey these results and discuss a joint work with P. Salomao to obtain more refined information about a new type of embedding.

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