

UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: Morse homology for the heat flow

Data: Sexta-feira, 1 de junho de 2012, 14h

Local: Sala 121 do IMECC

Resumo. Given a closed Riemannian manifold M , we construct an algebraic chain complex whose chain groups are generated by closed geodesics and whose boundary operator is given by counting heat flow trajectories between them. The homology of this chain complex is naturally isomorphic to singular homology of the free loop space of M . This relates to earlier joint work with D. Salamon on Floer homology of the cotangent bundle.

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