



Seminário de Sistemas Dinâmicos da UFF

SINGULAR HYPERBOLICITY AND SECTIONAL LYAPUNOV EXPONENTS OF VARIOUS ORDERS

Luciana Salgado

Universidade Federal do Rio de Janeiro (UFRJ)

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Local: Sala de seminários, 4º Andar, Bloco H, Campus do Gragoatá.

Resumo

There are notions of singular hyperbolicity and sectional Lyapunov exponents of orders beyond the classical ones, namely, other dimensions besides the dimension 2 and the full dimension of the central subbundle of the singular hyperbolic set. We obtain a characterization of dominated splittings, partial and singular hyperbolicity in this broad sense, by using Lyapunov exponents and the notion of infinitesimal Lyapunov functions. Furthermore, it is given alternative requirements to obtain singular hyperbolicity. As an application we obtain some results related to singular hyperbolic sets for flows.