

UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: Bifurcation of set-valued dynamical systems

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Local: Sala 321 do IMECC

Resumo. We discuss the bifurcation of minimal invariant sets of set-valued dynamical systems and show that there exist precisely two types of topological bifurcations of such sets, which are both discontinuous. The result applies to - and was motivated by - the bifurcations of random dynamical systems with bounded noise: the support of an invariant measure of the random dynamical system is an invariant set of an associated set-valued dynamical system. This is joint work with Martin Rasmussen and Christian Rodrigues.

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