

Seminário de sistemas dinâmicos e estocásticos

Departamento de Matemática - IMECC - UNICAMP

Filippov type discontinuous dynamical systems and regularizations near a co-dimension 2 discontinuity manifold

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Resumo:

In this talk we consider non smooth dynamical systems of Filippov's type in the neighborhood of a co-dimension 2 discontinuity manifold Σ . We are concerned with the behavior of solutions both when Σ is attractive and when it ceases to be attractive. This loss of attractivity will be characterized through the definition of generic potential exit points. We consider stable solutions of the non smooth dynamical system together with solutions of space regularizations in a neighborhood of Σ .

Data: Sexta-feira, 18 de novembro de 2016, 15:30hs.

Local: Sala 321 do IMECC.

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