

SEMINÁRIO

20 de Fevereiro de 2009

(Departamento de Matemática, sala Sousa Pinto, 11:30-12:30)

Título: An asymptotic approach to conjugate time for bang-bang problems.

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Resumo: We focus on the minimal time control problem for single-input control-affine systems $\frac{dx}{dt} = X(x) + u_1 Y_1(x) \in R^n$, where the scalar control u_1 fulfills the constraint $|u_1(\cdot)| \leq 1$. We recall the concept of conjugate time for the bang-bang case in these systems and propose an asymptotic approach, based on a penalized procedure, which allows the application of the well-known results (theoretical and practical) on the conjugate times for the smooth case into the bang-bang case.

Ciclo de Seminários CEOC