

SEMINÁRIO

17 de Abril de 2009

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

Título: Necessary Optimality Conditions for Fractional Difference Problems of the Calculus of Variations.

Orador: Nuno Bastos, PhD student (PDMA).

Abstract: We introduce a discrete-time fractional calculus of variations. First and second order necessary optimality conditions are established. Examples illustrating the use of the new Euler-Lagrange and Legendre type conditions are given. They show that the solutions of the fractional problems coincide with the solutions of the corresponding non-fractional variational problems when the order of the discrete derivatives is an integer value.

Ciclo de Seminários CEOC