



## **Seminário Conjunto**

## **CIMA/CMAF/DMAT**

**28 de Setembro de 2010, Terça-feira  
CLAV – Anf. 4 - 10:00 horas**

***On Homoclinic Solutions of a Semilinear  $p$ -Laplacian  
Difference Equation with Periodic Coefficients***

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## **Resumo**

We study the existence of homoclinic solutions for semilinear  $p$ -Laplacian difference equations with periodic coefficients. The proof of the main result is based on Brezis-Nirenberg's Mountain Pass Theorem and concentration compactness arguments. Several examples and remarks are given.