



SEMINAR

Grupo de Análise Funcional e Aplicações Functional Analysis and Applications Group

On periodic solutions of certain second order differential equations in presence of nonlinear dissipation

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Abstract

Motivated by an article of A. C. Lazer (1938-2020) about the existence of 2π -periodic solutions u(t) of

u'' + u + (F(u))' = e(t)

where F is C^1 and bounded and e(t) is 2π -periodic, we shall discuss: 1) a discrete version of this problem, 2) a similar problem where a bounded term g(u) is added. We shall also make some remarks and detours on the existence of bounded solutions. The talk is based mainly on articles by Luís Ferreira and L.S. (2020) and L.S. and João G. Silva (2021).

November 4, 2021 - 11:10

https://videoconf-colibri.zoom.us/j/89383278454 ID da reunião: 893 8327 8454 Senha de acesso: 776965

This seminar is supported in part by the Portuguese Foundation for Science and Technology (FCT - Fundação para a Ciência e a Tecnologia), through CIDMA - Center for Research and Development in Mathematics and Applications, within project UIDB/04106/2020.



