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SEMINAR

Grupo de Análise Funcional e Aplicações
Functional Analysis and Applications Group

Classical regularity methods in anisotropic parabolic equations

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Abstract

In this talk we discuss qualitative properties of weak solutions to a class of nonlinear anisotropic parabolic partial differential equations. These equations arise in models where diffusion may behave differently in each spatial direction, leading to operators with direction-dependent growth and nonstandard structure. These results illustrate how classical tools from the De Giorgi–Nash–Moser theory can be adapted to anisotropic frameworks, providing a general approach to the study of nonlinear parabolic problems with direction-dependent diffusion.

Room Sousa Pinto
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