



SEMINÁRIO

Análise e Equações Diferenciais

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Regularity in diffusion models with
gradient activation

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ABSTRACT:

In this talk, we discuss sharp regularity estimates for solutions of highly degenerate fully nonlinear elliptic equations. These are free boundary models in which a nonlinear diffusion process drives the system only in the region where the gradient surpasses a given threshold. This is joint work with Aelson Sobral, Universidade Federal da Paraíba - Brazil, and Eduardo Teixeira, University of Central Florida - EUA.

CMAF **10**