



**Mês de:                    OUTUBRO 2013**

**SEMINÁRIO DE ANÁLISE E EQUAÇÕES  
DIFERENCIAIS**

**Dia 14 de Outubro (Segunda-feira), às 13h, na Sala B3-01**

A quantitative Hölder exponent for the non-homogeneous  
p-parabolic equation

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**Abstract:**

That weak solutions of degenerate parabolic pdes modelled on the inhomogeneous p-Laplace equation are Hölder continuous is known for almost 30 years. What was hitherto missing from the literature was a precise and sharp knowledge of the Hölder exponent in terms of p, the integrability of the source and the space dimension n. We determine the precise and optimal exponent using a method based on the notion of geometric tangential equations and the intrinsic scaling of the p-parabolic operator. The talk will be self-contained and is based on a joint work with Eduardo Teixeira (UFC, Brazil).

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