



SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

Inhomogeneous Hopf-Oleinik Lemma and Applications

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Resumo: In this talk, we discuss a quantitative inhomogeneous version for the Hopf-Oleinik Lemma for Fully nonlinear and Quasilinear PDEs. As a consequence, we obtain several interior and up to the boundary regularity results for these equations and related free boundary problems. In this talk, we focus on the regularity of the normal mapping as an extension of the gradient estimates of Caffarelli-Nirenberg-Spruck for supersolutions. We will survey other results if time permits.