

$C^{1,\alpha}$ regularity for some degenerate elliptic equations

Cyril Imbert

Abstract

In this talk, I will present a joint work with L. Silvestre. A class of fully non-linear elliptic equations are considered, which are degenerate as the gradient becomes small. Hölder estimates obtained by the first author (2011) are combined with new Lipschitz estimates obtained through the Ishii-Lions method in order to get $C^{1,\alpha}$ estimates for solutions of these equations.