

MATHEMATICS COLLOQUIUM

Green Functions of a Class of Nonlinear Degenerate Operators and Application

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Abstract: In this talk, a generalization of the usual Green function of Laplacian operators to a class of nonlinear degenerate operators with X-ellipticity is considered. Maximum principle and some a priori estimates in the sense of distribution are established, and a comparison with corresponding Green functions is also presented. As an application of the Green function, we will show a locally Hölder continuity for nonlinear degenerate sub-elliptic equations with inhomogeneity items.

Date: Friday, **May 2, 2008**
Time: 4:00 pm – 5:00 pm
Place: MAGC 1.410

Refreshments will be served at 3:55pm.

For further information or for special accommodations, contact Dr. Karen Yagdjian at 381-2145, via email at yagdjian@utpa.edu, or visit www.math.panam.edu/colloquia.html