

Joint DG/PDE/Probability SEMINAR

THURSDAY, APRIL 28, 2011

PADELDFORD C-36

10:30PM–12:30PM

Potential Analysis on non-smooth domains

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Martin proved that every domain with Green function has the Martin boundary which represents all positive harmonic functions in the domain. The identification of the Martin boundary is a very interesting question and attracts a lot of attentions of numbers of mathematicians.

This talk is devoted to the Martin boundaries of nonsmooth Euclidean domains and related subjects in potential theory. Various interior and exterior conditions on domains are presented with backgrounds. Observe that the boundary Harnack principle and the Carleson estimate play important roles for the identification of the Martin boundary. Technical details such as the box argument are also given.

For more information about this seminar, visit the DG/PDE Seminar Web page (from the Math Department home page, www.math.washington.edu, follow the link **Seminars, Colloquia, and Conferences**).

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