DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, JANUARY 9, 2013
PADELFORD C-36
3:50PM–5PM

The logarithmic singularities of the Green functions of the
conformal powers of the Laplacian

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Green functions play an important role in conformal geometry. In this talk,
we shall explain how to compute explicitly the logarithmic singularities of
the Green functions of the conformal powers of the Laplacian, including
the Yamabe and Paneitz operators and the conformal fractional powers of
the Laplacian arising from scattering theory. The results are formulated in
terms of Weyl conformal invariants defined by means of the ambient metric
of Fefferman-Graham.

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**).