

DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, FEBRUARY 26, 2014

PADEL FORD C-36

3:50PM–5PM

A Liouville Theorem in Conformal Geometry

Nick Reichert

(UW)

In recent years questions in conformal geometry involving the Schouten tensor have generated much interest. We give a discussion of a Liouville theorem for a symmetric function of the eigenvalues of the Schouten tensor. First we provide some background explaining why such functions are of interest and how the theorem is useful in practice. Next, we will address a proof of a Liouville theorem due to Li and Li using a moving plane argument. Finally, we show how an alternative integral estimate approach due to Chang, Gursky, and Yang can be adapted to a range of cases.

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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