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Xiaodong Wang\*, Department of Mathematics, Michigan State University, East Lansing, MI 48824, and Xiaodong Yan, Department of Mathematics, Michigan State University, East Lansing, MI 48824. A nonlinear integral equation in conformal geometry.

In this talk I will discuss a nonlinear integral equation which arises in conformal geometry. It is motivated by the isoperimetric problem and shares several important features with the Yamabe problem. (Received August 28, 2006)