

ANALYSIS AND DIFFERENTIAL GEOMETRY
COLLOQUIUM

*Existence and uniqueness of Green's function to a nonlinear
Yamabe problem*

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Abstract: For a given finite subset S of a compact Riemannian manifold $(M; g)$ whose Schouten curvature tensor belongs to a given cone, we establish a necessary and sufficient condition for the existence and uniqueness of a conformal metric on M minus S such that each point of S corresponds to an asymptotically flat end and that the Schouten tensor of the new conformal metric belongs to the boundary of the given cone. This is a joint work with Luc Nguyen.

Thursday, October 18, 2018, 4:00 pm
Mathematics and Science Center: W303

MATHEMATICS
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