Student Differential Geometry Seminar

Stony Brook University

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Marlon Gomes : "Scalar curvature, conformal geometry, and
Einstein metrics."

ABSTRACT: In this introductory talk, I will describe how scalar curvature
manifests itself in Riemannian Geometry, from a variational perspective. We
will study properties of extrema of the Einstein-Hilbert functional, and its
restriction to conformal classes of Riemannian metrics. We will finish with
a brief discussion of the Yamabe problem.