Geometric Analysis Seminar

UNIVERSITY OF NOTRE DAME
Department of Mathematics

Speaker: **Mei-Chi Shaw**
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Thursday, December 3, 2015
10:30 am
Room: 125 Hayes-Healy Hall

Title: Function Theory on Negatively Curved Manifolds

Abstract:
Let M be a simply-connected complete Kähler manifold whose sectional curvature is bounded between two negative numbers. In this talk we will show the existence of non-constant bounded holomorphic functions on M if the complex dimension of M is greater or equal to three. We will also give a very simple proof of the classical Poincaré's inequality and the McKean theorem on negatively Riemannian manifolds with negative curvature.