

COMPLEX ANALYSIS SEMINAR

INVARIANT METRICS

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ABSTRACT: Biholomorphically invariant metrics can be used as a tool to study holomorphic functions. For example, one proof that the ball and polydisk are not biholomorphic uses the boundary behavior of the Bergman metric on those domains. Also, Fefferman's results on extending holomorphic functions to the boundary rely on understanding geodesics of the Bergman metric near the boundary. I will discuss how $\bar{\partial}$ theory can be used to study invariant metrics, and also some joint work with Lina Lee and Hyunsuk Kang.

Date: Thursday, February 4, 2010

Time: 4pm-5pm

Place: UH 4010

Webpage: <http://math.utoledo.edu/~sonmez/complexseminar.html>