

COMPLEX ANALYSIS SEMINAR

SMOOTH COUNTEREXAMPLES TO STRONG UNIQUE CONTINUATION FOR A BELTRAMI SYSTEM IN \mathbb{C}^2

Adam Coffman

Indiana University-Purdue University Fort Wayne

ABSTRACT: (joint work with Yifei Pan) We construct an example of a smooth map $\mathbb{C} \rightarrow \mathbb{C}^2$ which vanishes to infinite order at the origin, and such that the ratio of the norm of the \bar{z} derivative to the norm of the z derivative also vanishes to infinite order. This gives a counterexample to strong unique continuation for a vector valued analogue of the Beltrami equation.

Date: Thursday, March 24, 2011

Time: 4pm-5pm

Place: UH 4440

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