Differential Equations and Applied Math Seminar

Texas State University

2-3pm October 23, 2015 326 Derrick Hall

Speaker: Dr. Ray Treinen, Texas State University

Title: Functions of Bounded Variation and Sets of Finite Perimeter

Abstract: While Sobolev spaces are fairly well known from the theory of partial differential equations, it is sometimes more natural to work with functions of bounded variation and sets of finite perimeter. These ideas were brought into the spotlight in the 1950's by de Giorgi, and we present here a more recent treatment by Evans and Gariepy. We will discuss the coarea formula and the reduced boundary.

Interested faculty and graduate students are encouraged to attend.