



Differential Equations and Applied Math Seminar

Dr. Ray Treinen, Texas State University

11am-12pm February 19th, 2016

330 Derrick Hall

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 review some concepts from previous talks and prove the Sobolev, Poincaré and isoperimetric inequalities.

Interested faculty and graduate students are encouraged to attend.