

Functions of Bounded Variation and Sets of Finite Perimeter

Abstract: Functions of bounded variation are more general than differentiable functions but still retain many nice properties. They play a key role in the area of calculus of variations and have applications in image processing. In this talk, we will define functions of bounded variation and discuss their connections to sets of finite perimeter. We will also look at some interesting examples of both. As an application of these concepts we will discuss minimal surfaces.

Rebekah Jones

Graduate Student

Department of Mathematical Sciences

University of Cincinnati

MONDAY - NOVEMBER 12 - 3:10 PM

Franklin Miller, Jr. Lecturer Hall - Hayes 109

MATH MONDAY