

MATH DEPARTMENT COLLOQUIUM



Dr. Ivan Blank
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Kansas State University
Friday, Feb 20, 2015
3:00-4:00 PM
DERR 329

The Regularity and Stability of the Free Boundary in the Obstacle Problem

First, I will give a short overview of what a free boundary problem is and why anyone cares to study these problems. Next, I will describe some of the results of my research into the obstacle problem, which include some conditions leading to the optimal regularity of the free boundary. I will also describe recent results in generalizing this problem. I will try to make this talk understandable to a general audience.

Dr. Blank graduated Magna Cum Laude from Princeton in 1993, and received his PhD from NYU under the direction of Luis Caffarelli in 2000. He had a Hill Assistant Professorship at Rutgers and now is an Associate Professor at KSU. He has graduated 2 PhD students and has been supported by the NSF and the Clay Institute.