



Department of Mathematical Sciences

Spring 2018

Colloquium Series

April 20, 2018 at 3pm in Bell Hall 143

Dr. Alfonso Castro

Harvey Mudd College

Two short papers in Analysis with deep implications

One of these papers shows the equivalence of different constructions of Sobolev spaces which play a central role in understanding the solvability of generalized solutions to partial differential equations. The other, using only calculus techniques, explains the balance between polynomial nonlinearities, order of the equation, and dimension of the domain needed for a semilinear partial differential equation to have solutions.

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