

INSALATE DI MATEMATICA



Generic Regularity in the Obstacle Problem

27/05/2026

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IN THIS TALK

The Obstacle Problem arises naturally when studying an elastic membrane constrained by contact with an object (the obstacle). In this talk, we introduce the notion of solutions of the classical Obstacle Problem, discuss some applications, and discuss the main challenges in proving generic regularity of the free boundary in higher dimensions. This is based on a joint work in progress with A. Figalli and J. Serra.

 **words: Elliptic PDES, generic regularity, free boundary problem**

