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**Min-max Theory and the Willmore conjecture**

Abstract. I will talk about my recent work with Fernando Marques, where we used min-max methods to prove the Willmore conjecture. The lectures will be

- Lecture 1- Introduction
- Lecture 2- The canonical family
- Lecture 3- Almgren-Pitts min-max theory
- Lecture 4 - Proof of main results.