

Stationary Points of Conformally Invariant Polyconvex Energies

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Abstract

In this seminar we present recent work, in collaboration with A. Guerra, concerning the regularity of stationary points for a class of planar polyconvex functionals that are conformally invariant, a natural assumption in view of geometric applications. After a brief overview of the literature, we will introduce a partial regularity result for this class of energies. Furthermore, if time allows, we will show how full C^1 regularity can be established for orientation-preserving stationary points.