

Free boundary regularity for almost minimizers

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Abstract:

In recent work with G. David, and ongoing work with G. David and M. Engelstein, we study almost minimizer for functionals which yield a free boundary, as in the work of Alt-Caffarelli and Alt-Caffarelli-Friedman. The almost minimizing property can be understood as the defining characteristic of a minimizer in a problem which explicitly takes noise into account. In this talk we will briefly mention the regularity results for these almost minimizers and discuss the structure of the corresponding free boundary.