

Piecewise affine microstructures

Bernd Kirchheim

Abstract

Over the last decade, the construction of (absolute) minimizers of non(semi)convex problems developed rapidly. Since the direct method fails here, various techniques for partial differential inclusions have to be used - usually giving highly oscillatory gradients of the lipschitz solutions.

We rather search for minimizers, whose gradient is almost everywhere locally constant, and give first examples of this kind for a three dimensional rotational invariant case.