

# Partial regularity for quasiconvex integrals of any order

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## Abstract

We prove  $C^{k,\alpha}$  partial regularity, of minimizers of integral functional in the Calculus of Variations of the type

$$\int_{\Omega} f(x, u, Du, D^2u, \dots, D^k u) dx$$

(for any  $k \geq 1$ ), where  $f$  is a strictly uniformly quasiconvex function and satisfies standard polynomial growth conditions.