## Bounds for vector valued minimizers of some integral functionals F. LEONETTI - F. SIEPE

## Abstract

We deal with maps  $u: \Omega \subset \mathbb{R}^n \to \mathbb{R}^N$  minimizing variational integrals  $\int_{\Omega} f(x, Du(x)) dx$ . Under suitable assumptions on f, we prove upper and lower bounds for every component  $u^{\beta}$  of the minimizer  $u = (u^1, \ldots, u^N)$ . Our results cover the model case n = N with  $f(x, z) = |z|^2 + h(detz)$  where  $h: \mathbb{R} \to [0, \infty)$  is continuous.