Abstract

We prove regularity properties in the vector valued case for minimizers of variational integrals of the form

$$\mathcal{A}(u) = \int_{\Omega} A(x, u, Du)\, dx$$

where the integrand $A(x, u, Du)$ is not necessarily continuous respect to the variable x, grows polinomially like $|\xi|^p$, $p \geq 2$.