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Some New Results about Mosco Convergence

We consider the problem $\min_{v \in C} J(v)$, where J is the standard integral functional

$$J(v) = \int_{\Omega} j(x, \nabla v) - \int_{\Omega} f(x) v(x),$$

defined in the Sobolev space $W_0^{1,q}(\Omega)$. We study the convergence of the minima u if we perturb the convex set C in accordance with the Mosco convergence.

Keywords: Mosco convergence, minimization, integral functionals, continuous dependence, real analysis methods.

MSC: 49N99, 35J20, 35J60, 46T99.