

WEAK LOWER SEMICONTINUITY FOR NON COERCIVE POLYCONVEX INTEGRALS

M. AMAR – V. DE CICCO – P. MARCELLINI – E. MASCOLO

ABSTRACT. We prove a lower semicontinuity theorem for a polyconvex functional of integral form, related to maps $u : \Omega \subset \mathbb{R}^n \rightarrow \mathbb{R}^m$ in $W^{1,n}(\Omega; \mathbb{R}^m)$ with $n \geq m \geq 2$, with respect to the weak $W^{1,p}$ -convergence for $p > m - 1$, without assuming any coercivity condition.