

1011-49-270

**Pedro M Santos\*** ([pmsantos@math.ist.utl.pt](mailto:pmsantos@math.ist.utl.pt)), Instituto Superior Técnico, Departamento de Matemática, 1049-001 Lisboa, Portugal. *A-quasiconvexity*.

In this work we study the lower-semicontinuity of  $v \rightarrow \int_{\Omega} f(x, v(x))dx$ , under appropriate growth and continuity conditions on  $f$ , for weakly convergent sequences in  $L^p$  that are constrained by a 1st order system of PDE's with constant rank. (Received August 29, 2005)