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**Cyril Joel Batkam\*** ([cyril.joel.batkam@usherbrooke.ca](mailto:cyril.joel.batkam@usherbrooke.ca)), 2500 Boul. de l'Université, Sherbrooke, Quebec J1K2R1, Canada. *Multiplicity result for a class of elliptic systems*. Preliminary report.

We consider a class of elliptic systems which lead to the study of strongly indefinite symmetric functionals, and with nonlinearities which do not satisfy the Ambrosetti-Rabinowitz super-quadratic condition. Since in the case we consider we do not know whether the functionals satisfy the Palais-Smale condition, we develop two generalized versions of the Symmetric Mountain Pass Theorem in order to prove the existence of infinitely many solutions. The first version is based on the monotonicity trick and the second uses the Cerami condition. (Received September 14, 2013)