# PERIODIC SOLUTIONS OF A SUBQUADRATIC NONCONVEX SECOND ORDER HAMILTONIAN SYSTEM

by

**Lavoslav Čaklović**, Zagreb, Croatia

*Abstract.* The second order hamiltonian system is considered with T-periodic potential that is subquadratic at infinity. The existence of T-periodic solution is proved using variational methods.
*Mathematics subject classification:* 34L30, 58E05, 58F22.
*Keywords:* Hamiltonian system, PS-condition, deformation lemma.