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**Zhifu Xie\***, Department of Mathematics and Computer Scienc, Petersburg, VA 23806, and

**Tiancheng Ouyang**. *Variational method with SPBC and periodic solutions in N-body problems.*

In this talk, we will present some new results by applying variational method with SPBC to prove the existence of periodic or quasi-periodic solutions in Newtonian N-body problem. Numerical simulations will also be presented. (Received August 28, 2014)