

1021-49-167

Xudong Yao* (xudong@math.uconn.edu), Department of Mathematics, University of Connecticut, 196 Auditorium Road, U3009, Storrs, CT 06269-3009. *A Numerical Method for Computing Nonlinear Eigenpairs.*

In this talk, a numerical method for computing multiple solitary wave solutions to the Gross-Pitaevskii equation will be presented. Numerical experiment results will be shown and convergence of the method will be discussed.

This is a joint work with Prof. J. Zhou, TAMU. (Received September 04, 2006)