

1138-34-398

Xianbo Sun* (xsun244@uwo.ca) and **Pei Yu**, Western University, Middlesex College Room 25, 1151 Richmond Street, London, Canada. *Bifurcation Graph in a three-parameter perturbation of hyperelliptic Hamiltonian*. Preliminary report.

In this work, we present an algebraic-geometric method to determine the bifurcation graph in a three-parameter perturbation to a hyper-elliptic Hamiltonian. We give the algebraic set of the double limit cycle curve. (Received February 13, 2018)