
Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

講題 Floer homology

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Abstract

In this talk, we will discuss Floer homology, which is defined for a symplectic manifold with a time-dependent Hamiltonian. Floer homology is the homology of the Floer chain complex which is, as a vector space, a $\mathbb{Z}/2\mathbb{Z}$ -vector space freely generated by the period solutions of the given Hamiltonian system. To define the boundary operator of the Floer complex, I will also need an action functional and the Floer equation. Finally I will compare Morse complexes and Floer complexes.

