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Symplectic geometry and Floer homology. (English) Zbl 1070.53055

The paper under review represents the revised notes of the lectures given by the authors at the 13th Brazilian meeting in Belo-Horizonte (July 2002). Its purpose is to give an introduction to symplectic Floer homology and in a simple case a sketch of proof for the Arnold conjecture. The reviewer thinks that the paper is useful to all who work in this topics.

Reviewer: Mircea Puta (Timișoara)

MSC:
53D40 Symplectic aspects of Floer homology and cohomology
58E05 Abstract critical point theory (Morse theory, Lyusternik-Shnirel’mann theory, etc.) in infinite-dimensional spaces
58D10 Spaces of embeddings and immersions

Keywords:
symplectic geometry; Floer homology; Arnold conjecture

Full Text: EMIS