METHOD OF PSEUDOHOLOMORPHIC CURVES AND ITS APPLICATIONS

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Abstract. The method of "pseudoholomorphic" curves proved itself to be extremely useful in different fields. In symplectic topology ex. Gromov's non-squeezing theorem, Arnold conjecture and Floer homology, Gromov-Witten invariants. In complex analysis and geometry ex. polynomial hulls of totally real surfaces, envelopes of meromorphy, holomorphic foliations. We shall develop the theory of complex curves in almost complex manifolds and discuss some of these applications in our lectures.

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