On the perturbation of stationary discs in almost complex manifolds

Uroš Kuzman

IMFM Ljubljana
Jadranska 19
1000 Ljubljana
SLOVENIA

The structure of the space of all holomorphic discs near an embedded holomorphic disc attached to a maximal totally real manifold was studied by many authors (Forstnerič, Oh, Globevnik). We present a generalization of this deformation theory for the manifolds equipped with a non-integrable structure and apply it in order to giva a result concerning perturbation of stationary discs in R^4.