

Ann. Scuola Norm. Sup. Pisa Cl. Sci. (5)
Vol. X (2011), 389-411

Regularization of almost complex structures and gluing holomorphic discs to tori

ALEXANDRE SUKHOV AND ALEXANDER TUMANOV

Abstract. We prove a result on removing singularities of almost complex structures pulled back by a non-diffeomorphic map. As an application we prove the existence of global J -holomorphic discs with boundaries attached to real tori.

Mathematics Subject Classification (2010): 32H02 (primary); 53C15 (secondary).