

1072-58-40

Tian-Jun Li* (lixxx248@umn.edu), School of Mathematics, University of Minnesota, Mpls, MN 55455. *Symplectic Calabi-Yau surfaces.*

Symplectic 4-manifolds with negative Kodaira dimension have been classified up to symplectomorphisms. In the next case, Kodaira dimension zero, there is a speculation that such a manifold is diffeomorphic to K3, Enriques surface or a torus bundle over torus. I will discuss what is known towards this conjectured smooth classification (part of this talk is based on joint works with Yi Ni, Chung-I Ho). (Received June 09, 2011)