The α-invariant on toric Fano manifolds

Jian Song

Department of Mathematics
Columbia University
2990 Broadway, 509 Mathematics Building
New York, NY 10027
USA

Abstract

The global holomorphic α-invariant introduced by Tian is closely related with the study in the existence of Kahler-Einstein metric. We apply the result of Tian, Lu and Zelditch on polarized Kahler metrics to approximate plurisubharmonic functions and compute the α-invariant of toric Fano manifolds.