

Texas Geometry and Topology Conference
Meeting 38. Texas A&M University, October 19-21, 2007

Jean-Pierre Demailly, Université de Grenoble, *On compact complex manifolds covered by a torus*

The purpose of the talk is to show that if a compact complex manifold is a surjective image of a torus, then it is Kähler, and up to a finite étale cover, it is a product of projective spaces by a torus (joint work with J. M. Hwang and Th. Peternell). The proof relies on earlier results of Hwang-Mok, and on techniques developed during the 90's in the study of compact Kähler manifolds with nef tangent bundles.