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Fundamental group and positivity of cotangent bundles of compact Kähler manifolds. (English) [Zbl 0845.32027](#)

J. Algebr. Geom. 4, No. 3, 487-502 (1995).

Let X be a complex compact Kähler manifold. The aim of this paper is to bound the complexity of the fundamental group $\pi_1(X)$ in terms of analytic invariants associated with the manifold X . The complexity of $\pi_1(X)$ is measured by looking at the natural action of this group on the universal covering space of X .

Reviewer: [A.Dimca \(Bordeaux\)](#)

MSC:

[32J27](#) Compact Kähler manifolds: generalizations, classification

[14F35](#) Homotopy theory and fundamental groups in algebraic geometry

[57S25](#) Groups acting on specific manifolds

Cited in **2** Reviews
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Keywords:

compact Kähler manifold; fundamental group; complexity