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The Fibered Isomorphism Conjecture for Complex Manifolds

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摘要

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Abstract In this paper we show that the Fibered Isomorphism Conjecture of Farrell and Jones, corresponding to the stable topological pseudoisotopy functor, is true for the fundamental groups of a class of complex manifolds. A consequence of this result is that the Whitehead group, reduced projective class groups and the negative $\mathbb{K}\mathbb{S}$ -groups of the fundamental groups of these manifolds vanish whenever the fundamental group is torsion free. We also prove the same results for a class of real manifolds including a large class of \mathbb{S}^3 -manifolds which has a finite sheeted cover fibering over the circle.

Key words [Complex projective variety](#) [Complex surfaces](#) [Whitehead group](#) [Fibered isomorphism conjecture](#) [Negative \$\mathbb{K}\mathbb{S}\$ -groups](#)

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