

Compact Kahler manifolds with non-vanishing holomorphic vector fields

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We prove that any compact Kähler manifold admitting non-vanishing holomorphic vector field admits an arbitrarily small deformation of the complex structure such that we obtain a suspension of a compact manifold of lower dimension by a torus. We study this family of deformations and derive some consequences on 3-folds. This is a joint work with M. Nicolau and J. Amoros.