

# Oeljeklaus-Toma manifolds and deformations

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## Resumen

Oeljeklaus-Toma manifolds are complex non-Kähler manifolds, which generalize the Inoue manifold. They have been introduced in [3] to answer a conjecture by Vaisman, and their construction is based on algebraic number theory [5].

In this talk, we present a joint work with Maurizio Parton and Victor Vuletescu [1]. We prove that any holomorphic line bundle on an Oeljeklaus-Toma manifold of simple type (in particular, such manifolds have no divisor  $[4, 2]$ ) is flat. We get that Oeljeklaus-Toma manifolds are rigid under deformations of the complex structure.

## Referencias

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