

Geometry, Physics, and Representation Theory
Northeastern University

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Rational cohomology tori

Abstract.

Complex tori can be topologically characterized among compact Kähler manifolds by their integral cohomology ring. I will discuss the structure of compact Kähler manifolds whose rational cohomology ring is isomorphic to the rational cohomology ring of a torus and give some examples. This is joint work with Olivier Debarre and Zhi Jiang.