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Constraints on automorphism groups of higher dimensional manifolds.

It is known that a compact complex surface admits a holomorphic automorphism with positive topological entropy if it is Kaehler and obtained from the projective plane, torus, K3 surface or Enriques surface by a finite sequence of point blow-ups. In this talk, I will discuss some natural constraints on the size of the automorphism groups of higher dimensional compact complex manifolds. The talk will be based on the joint work with Serge Cantat. (Received September 07, 2014)