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Locally free holomorphic actions of the complex affine group. (English summary)

Geometric study of foliations (Tokyo, 1993), 201–217, *World Sci. Publ., River Edge, NJ*, 1994.

The paper classifies locally free, holomorphic, and volume preserving actions of the affine group of the complex line, Aff , on compact complex 3-manifolds. Some of these actions come from automorphisms of 2-dim complex tori. The proof is a mixture of complex analytic methods and of classical hyperbolic theory of dynamical systems. This paper is closely related to the work of Ghys [*Invent. Math.* **119** (1995), no. 3, 585–614; [MR1317651 \(95k:58116\)](#)].

Reviewed by *B. N. Apanasov*

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