

**Pereira, J. V.**

**Global stability for holomorphic foliations on Kähler manifolds.** (English) Zbl 1074.53019  
Qual. Theory Dyn. Syst. 2, No. 2, 381-384 (2002).

The author proves the global stability theorem for holomorphic foliations:

Theorem 1. Let  $\mathcal{F}$  be a holomorphic foliation of codimension  $q$  on a compact complex Kähler manifold. If  $\mathcal{F}$  has a compact leaf with finite holonomy group then every leaf of  $\mathcal{F}$  is compact with finite holonomy group.

This theorem allows the author to reobtain *H. Holmann's* [Lect. Notes Math. 798, 192–202 (1980; [Zbl 0451.57014](#))] result and a special case of Edwards-Millet-Sullivan's theorem [*R. Edwards, K. Millett and D. Sullivan*, Topology 16, 13–32 (1977; [Zbl 0356.57022](#))].

Reviewer: [Vladimir Yu. Rovenskij \(Nesher\)](#)

**MSC:**

[53C12](#) Foliations (differential geometric aspects)  
[57R30](#) Foliations in differential topology; geometric theory

Cited in 4 Documents

**Keywords:**

[holomorphic foliation](#); [holonomy](#); [compact leaf](#)

**Full Text:** [DOI](#) [arXiv](#)

**References:**

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