

**Ivashkovich, S. M.**

**Hartogs' phenomenon for holomorphically convex Kählerian manifolds.** (English. Russian original) [Zbl 0618.32011](#)

*Math. USSR, Izv.* 29, 225-232 (1987); translation from *Izv. Akad. Nauk SSSR, Ser. Mat.* 50, No. 4, 866-873 (1986).

In the work the extension of holomorphic mappings into complex manifolds is studied. The main result for the case of Kähler manifolds is the following. Theorem. For any domain  $D$  over the Stein manifold each holomorphic mapping from  $D$  into convex holomorphic Kähler manifold  $Y$  can be extended to the holomorphic mapping of the hull of holomorphy  $\hat{D}$  of the domain  $D$  into  $Y$  if and only if  $Y$  doesn't contain any images  $\mathbb{C}P^1$  under nonconstant holomorphic mappings.

Reviewer: P.Z.Agranovich

**MSC:**

[32D15](#) Continuation of analytic objects in several complex variables

[32D05](#) Domains of holomorphy

[53C55](#) Global differential geometry of Hermitian and Kählerian manifolds

Cited in **8** Documents

**Keywords:**

extension of holomorphic mappings; Kähler manifolds; convex holomorphic Kähler manifold; hull of holomorphy

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