

Abstract and keywords

Zero sequences of holomorphic functions,
the representation of meromorphic functions,
and harmonic minorants

B. N. Khabibullin

Let $\Lambda = \{\lambda_k\}$ be a sequence of points in a domain Ω of the complex plane \mathbb{C} . In the terms of harmonic measures, Green's functions, the balayage, Jensen measures, and others various general conditions are obtained under which Λ is zero sequence for a holomorphic function of given weighted space of holomorphic functions on Ω . In analogous terms we consider a problem on the representation of meromorphic function on Ω as quotient of two holomorphic functions without common zeros from given weighted space.

Bibliography: 38 titles.

Keywords: holomorphic function, distribution of zeros, meromorphic function, harmonic minorant, balayage, harmonic measure, Jensen measure, Green's function