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Subsequences of zeros  
for classes of holomorphic functions,  
and the entropy of arcwise connectedness

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**Аннотация**

Let  $\Omega$  be a domain in the complex plane  $\mathbb{C}$ ,  $H(\Omega)$  be a space of holomorphic functions in  $\Omega$ ,  $\mathcal{P}$  be a collection of subharmonic functions in  $\Omega$ . Let  $H_{\mathcal{P}}(\Omega)$  be a space of functions  $f \in H(\Omega)$  such that  $|f(z)| \leq C_f \exp p_f(z)$ ,  $z \in \Omega$ , where  $p_f \in \mathcal{P}$ , and  $C_f$  is a constant. Conditions are obtained under which given set  $\Lambda \subset \Omega$  is zero subset of a nonzero holomorphic function from class  $H_{\mathcal{P}}(\Omega)$ . As a rule results and method are new already for case, when  $\Omega = \mathbb{D}$  is the unit disk, even for the system  $\mathcal{P}$  of radial majorants  $p(z) = p(|z|)$ .

**Keywords:** holomorphic function, function algebra, weighted space, zero set, uniqueness set, Jensen measure, entropy