

Rukhadze, E. A.

A lower bound for the approximation of $\ln 2$ by rational numbers. (Russian) Zbl 0635.10025
Vestn. Mosk. Univ., Ser. I 1987, No. 6, 25-29 (1987).

Let $u \in [0, 1]$, and let ε be any positive number. It is proved that for any positive integers $p, q > q_0(\varepsilon, u)$ we have

$$|q \ln 2 - p| > q^{-\gamma-\varepsilon},$$

where $\gamma = \gamma(u)$ is a complicated function of u . Presumably, the best choice is $u = 1/7$ which leads to $\gamma = 2.893$.

Reviewer: [Veikko Ennola \(Turku\)](#)

MSC:

[11J04](#) Homogeneous approximation to one number

Cited in **7** Reviews
Cited in **18** Documents

Keywords:

diophantine approximation of $\ln 2$