

**Zeilberger, Doron; Zudilin, Wadim**

**The irrationality measure of  $\pi$  is at most 7.103205334137....** (English) Zbl 1456.11129  
Mosc. J. Comb. Number Theory 9, No. 4, 407-419 (2020).

The main result of this paper is that the irrationality measure exponent of the number  $\pi$  is less than 7.103205334138. The proof uses complex analysis, is based on clever calculating of special integral and is in the spirit of Salikov.

Reviewer: Jaroslav Hančl (Ostrava)

**MSC:**

- 11J82 Measures of irrationality and of transcendence
- 11Y60 Evaluation of number-theoretic constants
- 33F10 Symbolic computation of special functions (Gosper and Zeilberger algorithms, etc.)
- 33C60 Hypergeometric integrals and functions defined by them ( $E$ ,  $G$ ,  $H$  and  $I$  functions)

**Keywords:**

$\pi$ ; irrationality measure exponent; experimental mathematics; Almkvist-Zeilberger algorithm

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