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A note on odd zeta values. (English) Zbl 1470.11203
Sémin. Lothar. Comb. 81, B81b, 13 p. (2020).

Summary: Using a new construction of rational linear forms in odd zeta values [the second author, SIGMA, Symmetry Integrability Geom. Methods Appl. 14, Paper 028, 8 p. (2018; [Zbl 1445.11063](#))] and the saddle point method, we prove the existence of at least two irrational numbers amongst the 33 odd zeta values $\zeta(5), \zeta(7), \dots, \zeta(69)$.

MSC:

[11J72](#) Irrationality; linear independence over a field
[11M06](#) $\zeta(s)$ and $L(s, \chi)$
[33C20](#) Generalized hypergeometric series, ${}_pF_q$

Cited in **1** Review
Cited in **2** Documents

Keywords:

irrationality; values of Riemann zeta function at odd integers

Full Text: [arXiv Link](#)

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