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Hankel determinants of zeta values. (English) Zbl 1387.11054

SIGMA, Symmetry Integrability Geom. Methods Appl. 11, Paper 101, 5 p. (2015).

Summary: We study the asymptotics of Hankel determinants constructed using the values $\zeta(an + b)$ of the Riemann zeta function at positive integers in an arithmetic progression. Our principal result is a Diophantine application of the asymptotics.

MSC:

[11J72](#) Irrationality; linear independence over a field

[11M06](#) $\zeta(s)$ and $L(s, \chi)$

[41A60](#) Asymptotic approximations, asymptotic expansions (steepest descent, etc.)

Cited in **3** Documents

Keywords:

[irrationality](#); [Hankel determinant](#); [zeta value](#)

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