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Dedekind's η -function and Rogers-Ramanujan identities. (English) Zbl 1234.05040
Bull. Lond. Math. Soc. 44, No. 1, 1-11 (2012).

Summary: We prove a q -series identity that generalizes Macdonald's $A_{2n}^{(2)}$ - η -function identity and the Rogers-Ramanujan identities. We conjecture our result to generalize even further to also include the Andrews-Gordon identities.

MSC:

[05A19](#) Combinatorial identities, bijective combinatorics
[05E05](#) Symmetric functions and generalizations
[11F20](#) Dedekind eta function, Dedekind sums
[33D67](#) Basic hypergeometric functions associated with root systems

Cited in **1** Review
Cited in **14** Documents

Keywords:

Andrews-Gordon identities; Macdonald's $A_{2n}^{(2)}$ - η -function identity

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