

Chan, Heng Huat; Huang, Sen-Shan

On the Ramanujan-Göllnitz-Gordon continued fraction. (English) Zbl 0905.11008

Ramanujan J. 1, No. 1, 75-90 (1997).

Let $H(q)$ be the Ramanujan-Göllnitz-Gordon continued fraction. The authors establish some identities satisfied by $H(q)$, which yield relations between $H(q)$, $H(-q)$, and $H(q^2)$, and also between $H(q)$ and $H(q^n)$. In addition, they obtain explicit formulas for $H(e^{-\pi\sqrt{n}})$ and $H(e^{-\pi\sqrt{n}/2})$. They show that the latter is always a unit.

Reviewer: N.Robbins (San Francisco)

MSC:

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Cited in **4** Reviews
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Keywords:

units; singular moduli; modular equations; Ramanujan-Göllnitz-Gordon continued fraction

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