

The Rogers Ramanujan Continued Fraction And A New

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The Rogers Ramanujan Continued Fraction

Ramunujan's "Lost" Notebook III. The Rogers-Ramanujan ...

One of the most celebrated theorems associated with Ramanujan's career is the Rogers-Ramanujan continued fraction $C(q) = 1 + \frac{q}{1 + \frac{q^2}{1 + \frac{q^3}{1 + \frac{q^4}{11}}}}$ Part of the fame of this result is due to the fact that Ramanujan included several astounding corollaries of this result in his first letter to G H Hardy

How to Prove Ramanujan's -Continued Fractions

How to Prove Ramanujan's q-Continued Fractions Gaurav Bhatnagar Educomp Solutions Ltd bhatnagarg@gmailcom May 8, 2019 Abstract By using Euler's approach of using Euclid's algorithm to expand a power series into a contin-ued fraction, we show how to derive Ramanujan's q-continued fractions in a systematic manner

Ramanujan's contribution to continued fractions

concerning the Rogers-Ramanujan continued fraction which appear in the "lost" notebook, and has promised to prove the arithmetic results (Is it too much to hope that in this Centenary year, the funds may be found to publish, and thereby make more readily accessible, all ...

Continued Fractions and Modular Functions

that related to continued fractions I will concentrate on the special values of continued fractions that represent modular functions, es-pecially the Rogers-Ramanujan continued fraction These give ana-logues of the simple continued fraction expansions of units in real quadratic fields My primary motivation is to furnish a coherent

ON A CONTINUED FRACTION OF RAMANUJAN

ON A CONTINUED FRACTION OF RAMANUJAN Gaurav Bhatnagar and Mourad E H Ismail OPSFA 2019 Hagenberg, July 21, 2019 -G H Hardy

"There is always more in one of Ramanujan's formulae Euler's Approach: The Rogers-Ramanujan Continued Fraction Euler ...

Parametric Evaluations of the Rogers-Ramanujan Continued ...

International Journal of Mathematics and Mathematical Sciences 5 The above equalities follow from 1 page 280 Entry 13-xii and the definition of w Notethat mis the multiplier Hence for given $0 < w < 1$, we find $L \in \mathbb{R}$ and we get the following parametric evaluation for the Rogers Ramanujan continued fraction

On the Rogers-Ramanujan continued fraction

On the Rogers-Ramanujan continued fraction K G RAMANATHAN School of Mathematics, Tata Institute of Fundamental Research, Homi Bhabha Road, Bombay 400005, India Abstract In the "Lost" note book, Ramanujan had stated a large number of resuhs regarding evaluation of his continued fraction

THE ROGERS-RAMANUJAN CONTINUED FRACTION AND A ...

THE ROGERS-RAMANUJAN CONTINUED FRACTION AND A QUINTIC ITERATION FOR $1/\pi$ HENG HUAT CHAN, SHAUN COOPER AND WEN-CHIN LIAW Abstract Properties of the Rogers-Ramanujan continued fraction are

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DIVERGENCE OF THE ROGERS-RAMANUJAN CONTINUED FRACTION 3347 References [1] Andrews, G E; Berndt, Bruce C; Jacobsen, Lisa; Lamphere, Robert L ...

SOME THETA FUNCTION IDENTITIES RELATED TO THE ROGERS ...

Abstract In his rst and second letters to Hardy, Ramanujan made several assertions about the Rogers-Ramanujan continued fraction $F(q)$ In order to prove some of these claims, G N Watson established two important theorems about $F(q)$ that he found in Ramanujan's notebooks In his lost notebook, af-

The Rogers-Ramanujan continued fraction and a new ...

Rogers-Ramanujan's continued fraction With two elementary trigonometric sums and the Jacobi theta function θ_1 , we provide a new proof of two Ramanujan's identities for the Rogers-Ramanujan continued fraction in his lost notebook We further derive a new Eisenstein series identity associated with the Rogers-Ramanujan continued fraction

T R O T T ' S C O R N E R Modular Equations of the Rogers ...

The Mathematica® Journal T R O T T ' S C O R N E R Modular Equations of the Rogers-Ramanujan Continued Fraction Michael Trott In this issue's Corner, we will define and investigate the

APPLICATIONS OF THE HEINE AND BAUER-MUIR ...

APPLICATIONS OF THE HEINE AND BAUER-MUIR TRANSFORMATIONS TO ROGERS-RAMANUJAN TYPE CONTINUED FRACTIONS JONGSIL LEE, JAMES MC LAUGHLIN AND JAEBUM SOHN Abstract In this paper we show that various continued fractions for the quotient of general Ramanujan functions $G(aq, b, \lambda q)/G(a, b, \lambda)$ may be derived from each other via Bauer-Muirtransformations

ON THE DIVERGENCE OF THE ROGERS-RAMANUJAN CONTINUED ...

DIVERGENCE OF THE ROGERS-RAMANUJAN CONTINUED FRACTION 5 Corollary 1 Let t be the number with continued fraction expansion equal to $[0, e_1, e_2, \dots]$, where e_i is the integer consisting of a tower of i twos with an i an top

GENERAL ARTICLE How to Discover the Rogers-Ramanujan ...

ful formulae than the ‘Rogers–Ramanujan’ identities” The purpose of this article is to introduce you to the Rogers–Ramanujan identities, by discussing an approach to discover them When you see that they appear from a very simple generalization of the simplest possible in ...

On Ramanujan’s cubic continued fraction - Home ICM

ACTA ARITHMETICA LXXIII4 (1995) On Ramanujan’s cubic continued fraction by Heng Huat Chan (Urbana, Ill) Dedicated to the memory of Professor K G Ramanathan

ON THE DIVERGENCE OF THE ROGERS-RAMANUJAN CONTINUED ...

ON THE DIVERGENCE OF THE ROGERS-RAMANUJAN CONTINUED FRACTION ON THE UNIT CIRCLE D BOWMAN AND J MC LAUGHLIN

Abstract This paper is an intensive study of the convergence of the Rogers–Ramanujan continued fraction Let the continued fraction expansion of any irrational number $t \in (0,1)$ be denoted by $[0, a_1(t), a_2(t), \dots]$ and let the i -th

1. Introduction - CiteSeerX

ROGERS-RAMANUJAN CONTINUED FRACTION 5 3 The Primary Formulas for $R(q)$ To establish several of the claims on $R(q)$ that Ramanujan made in his first two letters to Hardy, Watson [34] first proved two theorems about $R(q)$ that can be found in Ramanujan’s second notebook [4, pp 265–267]

RAMANUJAN TYPE q -CONTINUED FRACTIONS

RAMANUJAN TYPE q -CONTINUED FRACTIONS Tapani Matala-aho 19th Czech and Slovak Number Theory Conference August 31 { September 4, 2009 Hradec nad Moravic , Czech Republic Rogers–Ramanujan Continued Fraction, J Number Theory 45, 1993, 215{227 = RAMANUJAN TYPE q -CONTINUED FRACTIONS

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ACTA ARITHMETICA XC1 (1999) Ramanujan’s formulas for the explicit evaluation of the Rogers–Ramanujan continued fraction and theta-functions by Soon-Yi Kang (Urbana, IL) 1 In