Bibliography


CONTRIBUTIONS TO RAMANUJAN'S THETA-FUNCTIONS
AND MODULAR EQUATIONS

Doctoral thesis by JONALI BORA

Corrigendum

1. The theta-function identities which we proved in Chapter 2 are in fact
different from those proved by Baruah and Bhattacharyya [4] (i.e. [3]
in the previous version). We have rewritten the first paragraph of the
introduction of Chapter 2 in support of this fact.

2. The idea of proofs of the three identities (4.2.19)-(4.2.21) are due to Mr.
N. Saikia and for this reason we have written our paper [8] ([5] in the
previous version) together. The other proofs came out from a joint work
with the author's supervisor Dr. N. D. Baruah. We have added a remark
at the end of Chapter 4 to acknowledge the help received from Mr. Saikia.

3. In fact, the identities (5.1.1), (5.1.2), (5.1.3) are due to L. J. Rogers [30],
[31]. These appear in L. J. Slater's list [34] of 130 Rogers-Ramanujan type
identities. We have properly given reference of Rogers' papers and
as suggested by one of the referees, marked these identities according to
Slater's list. Also the identities (5.1.4), (5.1.5), (5.1.6) are due to W.
N. Bailey [2]. These also appear in Slater's list, but all three contain
misprints. These misprints are corrected by A. V. Sills [33]. We have
incorporated these changes in the rewritten Introduction of Chapter 5.
Sills also corrected one misprint in Slater's formulation of (6.1.2). It is to
be noted that the formulation of (6.1.1) with that of Slater are equivalent.
In summary, we have corrected all the misprints in p.68, (5.1.1)-(5.1.3),
p.69, (5.1.4)-(5.1.6) and p.100, (6.1.2). It is worthwhile to note that
these misprints/ corrections do not change our modular relations.

4. p.2, In Eq. (1.1.7), we have defined \( (a; q) \).

5. p.6, In Eqs. (1.1.26) and p.100, In Eq (6.1.2) we have changed
\( \sum_{n=0}^{\infty} \) to \( 1 + \sum_{n=1}^{\infty} \).

6. p.4, p.49, We have changed all \( \lim q \to 1^{-} \) to \( \lim q \to 1^{-} \).

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7. We have corrected the misprints pointed out by one of the referees in his comments are listed below:

- a) Abstract page, L_6: Knowledge → Knowledge of
- b) Declaration page, L_2: has → have
- c) p.4, L_1: Ramaujan's → Ramanujan's
- d) p.4, L_3: Proofs all of → Proofs of all
- e) p.4, L_6: is → are

8. We have also corrected the misprints pointed out by one of the other two referees. [p.83, Eq (5.5.36) & Eq (5.5.37)]

9. Since the submission of our previous version of the thesis, the contents of Chapters 5 and 6 have been accepted for publication by the Journal of Number Theory and Integers, respectively. We have added these papers [6] and [7] in the Bibliography of the thesis.

We are extremely grateful to the referees for their helpful comments.

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