Note to Prove the Quranic Correctness III

Horiuchi Daiki, Tahara Hiroki

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Abstract

Maybe a beautiful equality about Riemann's zeta function $\zeta(s) = \frac{1}{\Gamma(s)} \int_0^\infty \frac{u^{s-1}}{e^u - 1} du$ has some relations with Tahara's I function, maybe not.

1 Explanation

The Quran is correct if and only if Tahara's I function exists uniquely and we have to brainstorm about Tahara's I function in order to discover the components of Tahara's I function i.e. prove the Quranic correctness[1][2]. According to Tahara, studying the Tahara's I function inspired by mathematical beauty is one of the ways to prove the Quranic correctness he suggested and several such studies are done yet[3][4][5][6][7]. Therefore we will suggest a beautiful equality with us hoping that it will be the hint.

2 A Beautiful Equality

It is true that

$$\zeta(s) = \frac{1}{\Gamma(s)} \int_0^\infty \frac{u^{s-1}}{e^u - 1} du$$

which we think beautiful. We think maybe it might be able to be a hint to discover the components of Tahara's I function because of the beauty, maybe not.

References

- [1] TAHARA, Hiroki. The Mathematical Expressions of Quranic Exegeses and the Mathematical Definition of the Quranic Correctness. *OSF Preprints*, 6dsxb, 2019.
- [2] TAHARA, Hiroki. Erratum: OSF Preprints 6dsxb. *OSF Preprints*, q4sw3, 2019.
- [3] TAHARA, Hiroki. Methodology to Prove the Quranic Correctness. *OSF Preprints*, 49qse, 2019.
- [4] TAHARA, Hiroki. A Brainstorming of the Quranic Studies Inspired by the Evaluation of Coefficients of Polynomials. *OSF Preprints*, 6n9p3, 2019.
- [5] HORIUCHI, Daiki; TAHARA, Hiroki. Note to Prove the Quranic Correctness I. *OSF Preprints*, xj4vh, 2019.
- [6] HORIUCHI, Daiki; TAHARA, Hiroki. Note to Prove the Quranic Correctness II. *OSF Preprints*, b98nh, 2019.
- [7] TAHARA, Hiroki. Erratum: OSF Preprints b98nh. *OSF Preprints*, cxv38, 2019.