

ERRATA TO “DECOMPOSITION PRINCIPLE FOR THE RECIPROCAL OF THE FACTORIAL^{*,†}”

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The text after Theorem 2 and before the Appendix should be replaced by the following:

Therefore, motivated by (7) and making use of the definition

$$\rho(n) = 4n \left\{ (2n-1|*)! (2n+1|*)! \mathfrak{S} \left[\frac{1}{(2n)!} \right] \mathfrak{S} \left[\frac{1}{(2n+1)!} \right] \right\}^{1/2},$$

we can show that $\lim_{n \rightarrow \infty} \rho(n) = 0$.

To provide a proof for this result, apply the Arithmetic-Geometric inequality to Theorem 1 to obtain $\rho(n) \leq 2n/n!$, which satisfies the noted asymptotic limit.

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