

From: R. Raghavan

January 22<sup>nd</sup>, 2019

Dear Mr. Garry Herrington,

**This is with reference to your comments uploaded on January 9<sup>th</sup>.**

I only wish to make the following points:

1. Your quote from pages 2 and 3 are from the extended abstract and your interpretation has been taken out of context.

As I had said, what was meant is that the lambda sequence  $\{\lambda(k), k=1, 2, \dots, n\}$ , behaves like an **instance of a random walk for large n**. (Nobody says it is, actually, a random walk!). In the paper the behaviour of the lambda sequence for large n, and the ramifications of such a behaviour on the analyticity of  $F(s)$  is studied in detail and several arithmetic theorems are proved. It is then shown that one can deduce that for large N, the asymptotic relationship for  $L(N)$  can be described by the expression:  $L(N) = c N^{1/2+e}$ , which satisfies the condition of Littlewood's theorem, from which RH follows. To do all this, one only needs to show that the statistical distribution of +1 and -1 of  $\lambda(n)$ 's, (for large n) in the lambda sequence is like the statistical distribution in a random walk.

As for your other technical comments and difficulties, all I can say my take-away on Eswaran's paper is: If one reads the abstract, the extended abstract and the Introduction as well as study the whole paper and the proofs, the paper can be understood in fair detail.

2. Regarding your comment regarding peer review etc., I wish to say that I have gathered that the paper is now under serious review by a reputed International Journal. And it is because of this that I think it is not appropriate for me to discuss any further. It is better that the experts who are now reviewing the paper decide. **All we can now do is just await their verdict.**

Regards

R. Raghavan

P.S. I request you to upload this letter too. Thank You!