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| Journal Name: | [**Journal of Advances in Mathematics and Computer Science**](https://journaljamcs.com/index.php/JAMCS) |
| Manuscript Number: | **Ms\_JAMCS\_133958** |
| Title of the Manuscript:  | **NEW CONTEMPORARY CONJECTURES FOR THE RIEMANN HYPOTHESIS** |
| Type of the Article |  |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **The manuscript is about an equivalent statement of the Riemann Hypothesis namely the one concerning the Dirichlet η(s) function ( in the manuscript S(s) = - η(s) ). This point is known (see Borwein, S. Choi, B. Rooney and A. Weirathmueller: The Riemann hypothesis - a resource for the afficionado and virtuoso alike. 1st Ed. CMS Books in Mathematics. Springer-Verlag New-York. 588p. (2008) ).**  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **The title is not suitable. I suggest : New proofs of the equivalent statement of the Dirichlet eta function.** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **To change new results by new proofs.** |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is not scientifically correct. There is some fatal errors in the beginning :* Page 2, he writes S=C\_1-C\_2. The eta function or the series S is convergent for Re(s)>0, but not absolutely convergent so that we can not write it as C\_1-C\_2. We consider :

C\_1**= sum\_{n=1}^{+∝}1/(2n)^s=(1/2^s) sum\_{n=1}^{+∝}1/n^s, but Re(s)=r \in ]0,1[, then the series C\_1 is divergent.**  |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Ref1: to correct C(s) par ζ(s).Ref 5. To reject because we find the same fatal errors. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes. |  |
| Optional/General comments | **The author does not numerate the equations. No details given.**  |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail) No.* |  |

**Reviewer details:**

**Abdelmajid Ben Hadj Salem, Tunisia**