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| Journal Name: | [**International Astronomy and Astrophysics Research Journal**](https://journaliaarj.com/index.php/IAARJ) |
| Manuscript Number: | **Ms\_IAARJ\_133443** |
| Title of the Manuscript: | **The Role of Supermassive Black Holes in Galactic Evolution: A Theoretical Insight in Observation and Simulation** |
| 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 itself lacks proper references on the topic. More than once, the author(s) talk about “previous studies” but never cite them properly on the text. Also, the References have typos in them, with a lot of “undefined” written after the authors names. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes. |  |
| **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.** | It is comprehensible; however it states that the paper is a “detailed study” on the topic. I’d suggest to rewrite it as “brief review of the literature”. |  |
| **Is the manuscript scientifically, correct? Please write here.** | It is somewhat correct, but lacks proper basis. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | I find the references overall lacking. It fails to cite important references on the topic, such as Kormendy & Ho 2013, Ramos Almeida & Ricci 2017, Harrison & Ramos Almeida 2024. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, however it contains a few easy-to-fix typos. |  |
| **Optional/General** comments | The author(s) should check the literature for more classical and more impactful papers from the literature (such as the ones mentioned above) to further build a knowledge basis on the topic. |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |

 **Reviewer details:**

 **Gabriel Roberto Hauschild Roier, Universidade Federal do Rio Grande do Sul, Brazil**