Abstract Evaluation

Name of Editor: Xiangyu Jin

Identify the below sections in the abstract – if you identify them, copy and paste the text/summarize as instructed. In all cases, add comments if: something is missing, the text could be made clearer and/or the arguments stronger.

* Started with one or two facts that relate to the problem statement (copy them here)

Measurements of local supermassive black holes (SMBHs) and their host galaxies relations between their properties, e.g. the *M*BH--*M*∗,bulge relationship.

* Explained why these facts are important (copy line here)

These relations indicate a coevolution of SMBHs and their host galaxies, and how they coevolve through time can answer questions about galaxy formation and SMBH feedback.

* Introduced the problem (rewrite the problem in your own words)

However, current methods for determining black hole and stellar masses at higher redshifts can have large uncertainties, leading to discrepancies in the *M*BH--*M*∗,bulge relationship

* + Current methods of measuring black hole masses and stellar masses will introduce discrepancies of *M*BH--*M*∗,bulge relationship at high redshifts
* Stated the goal (copy it here)

To test a new method of measuring stellar and bulge masses

* What is the key component? (your words)
  + HST imaging
  + Applying a new method to measure the stellar and bulge mass
* What is the target? (your words)

Ten quasars that have been studied by reverberation mapping

* Explained the strategy. (copy here)

We will perform image decomposition to determine the colors of host galaxies, which will then be used to measure the host masses.

* Stated the importance of the solution *to the subfield*  (copy here)

If this method for determining stellar and bulge masses is successful, we will gain a better understanding of the *M*BH--*M*∗,bulge  relation at high redshift

* Explained the broader implications of results to *other subfields*  (copy here)

leading to a more developed view of host-galaxy and SMBH coevolution through time.