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Stellar Evolution in AGNs ~ by Ben [Feedback]

SFR in AGN

Hey Ben, I have to start out and say this paper was wonderfully written. I took 400B and 300B last semester and learned quite a bit about star forming regions, but reading through your paper I actually learned some things I was not aware of! General concepts can only take your knowledge so far, but some of the papers you read and referred to said that some stars can reach up to 1000$M\odot$ from the “runaway accretion” process from Cantiello et al., 2021. I’d be curious to see if MESA-web could run a simulation with a 1000$M\odot$ star! To be fair, it wouldn’t give us an accurate description of its evolution since this scenario needs a heavily populated stellar/gaseous neighborhood.

One thing at the end I would be curious to know more about is the dependence on evolution regarding the metallicity. It was briefly mentioned in the final sections and I am curious to know more about that characteristic! I have some slides saved from my 400B class that I think you might find helpful with misc. information. It shall be attached along with this feedback paper, skim through it and you might find some cool tidbits of info!

No bias involved here, this it was easy to follow and the categorical breaks were clear and transitioned well with great detail. In the first and third paragraph, second and third sentences, respectively, may need a little grammar attention. Something may be misspelled but reading them out loud it felt odd. That is all the criticism I’ve got, this paper makes me excited to see your presentation! I need pictures Ben, give me pretty pictures to look at.

See you at work, buddy. Best of luck to ya!