## Poster: Massive Stars and the Origin of Supermassive Black Holes

## - Jonathan Tan

I summarize theories for the formation of supermassive black holes (SMBHs) and focus in particular on the possible connection to massive star formation in the distant, metal-free universe. In certain environments of pristine minihalos of high dark matter density, star formation may lead to the birth of supermassive, i.e.,  $\sim 100,000$  solar mass, stars that are the direct progenitors of SMBHs. I discuss how such models may be tested observationally, including with JWST, and compare and contrast with how massive stars form locally.

 $Galactic\ Scale$