

# The Gas Content and Star Formation in Quasars

*Friday 23 June 2023 14:00 (35 minutes)*

AGN feedback is often invoked in galaxy evolution, as a key physical mechanism to self-regulate star formation and black hole accretion. Is this mechanism truly effective? How to tell? I will describe a series of new experiments designed to use the ISM properties of quasar host galaxies to test the efficiency of AGN feedback. I will also introduce new methods to estimate the star formation rate, star formation efficiency, and ISM properties in quasar host galaxies, which are currently very poorly constrained. The ISM and star formation properties of quasars provide key insights into the role that black holes play in the lifecycle of galaxies.

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