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Exploring Star Formation and Multi-Phase Gas in a Brightest Cluster Galaxy with JWST, MUSE, and ALMA







AGN

Shocks

Comparing observations with Cloudy photoionization modeling can help disentangle dominant sources of ionization.

Credit: Leisawitz+2019 FEEDBACK GASCOOLING **Baryon Cycle** HALO GAS COOLING NUCLEAR SUPER-ACTIVITY NOVAE EVOLVED **STARS** STAR-**FORMING** GAS

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Galaxy clusters offer the perfect setting to explore how galaxies evolve on the most dramatic scales