

# How does the ISM evolve in passive galaxies?

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Recent discoveries challenge the conventional belief that quiescent galaxies at high redshifts contain minimal interstellar medium (ISM) compared to their stellar mass. Investigating the ISM abundance in these galaxies is crucial for understanding the late evolution of massive structures. This project combines new observational data with cosmological simulations to unravel the ISM abundance in quiescent galaxies and its environmental influences. Utilizing optical/near-infrared data from deep extragalactic fields like COSMOS and EGS, and complementing it with JWST infrared data, we aim to study the evolution of passive galaxies in early Universe.

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