

GASiFy: A multiwavelength survey of local galaxies with high sSFR

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Abstract

We are conducting a survey of HI, CO, and optical IFU observations of a large sample of nearby galaxies with high specific star-formation rates (sSFR). Their sSFR are akin to star-forming galaxies commonly surveyed at high redshift and span a wide range of stellar masses, 10^8 – $10^{10.7}$ M_{\odot} . The results are fascinating suggesting that these galaxies share many properties with their high redshift brethren such as high gas fractions, high ISM pressures, and clumpy star formation. The advantage of such a survey of local galaxies is that we can discover some aspects that are unknown about or impossible to study in distant galaxies, such as their HI content. Studies such as this one are important to put surveys of high redshift galaxies into their proper astrophysical context – this is the main point of this presentation.