

Star formation and AGN activities in selected nearby HII galaxies in the LeMMINGS survey

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Abstract. We investigate the relative fraction of the emission generated by star formation and nuclear activities in 6 nearby HII galaxies selected from the first high resolution radio data release of LeMMINGS, the Legacy e-MERLIN Multi-band Imaging of Nearby Galaxies Survey. These galaxies are supposed to be powered solely by star formation according to the BPT diagram but exhibit jetted morphologies on parsec scales indicating the presence of a low luminosity AGN. We further carried out a multi-wavelength SED fitting and analysis using the CIGALE code, estimating stellar masses and star formation rates.

Keywords. galaxies: active, galaxies: star formation
