

Star formation histories of dwarf galaxies in the local Universe

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One of the main applications of stellar evolution models and galactic archeology is the derivation of the star formation histories (SFHs) of nearby galaxies from the Color-Magnitude Diagrams (CMDs) of their resolved stellar populations. SFHs are a key ingredient to understand galaxy evolution in general. This research field has made a tremendous step forward with the advent of HST, and is likely to experience another quantum leap with JWST. I will review the current knowledge of SFHs in dwarf galaxies in the local Universe (i.e. within 20 Mpc) as derived by various groups with the synthetic CMD techniques. The impact of various sources of uncertainties (e.g. photometric depth and errors, reddening, binary stars, stellar evolution uncertainties, different SFH codes) will be discussed.

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