

# STAR FORMATION HISTORY – THE STORY AS TOLD BY THE GALACTIC WHITE DWARF LUMINOSITY FUNCTIONS

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With the state-of-the-art Gaia astrometry, the number of confirmed white dwarfs has reached a few hundred thousands. We have reached the era that small features in the Galactic white dwarf luminosity function (WDLF) can be resolved. We demonstrate how we can apply Markov chain Monte Carlo sampling on a set of pre-computed partial-WDLFs to derive the star formation history of their progenitor stellar population.