

NEW CLUES ON THE FORMATION OF CLOSE WHITE DWARF BINARIES WITH HOT SUBDWARF COMPANIONS

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About one third of the single-lined hot subdwarf B (sdB) stars in the field are found in close binaries with unseen companions. The majority of those post-common envelope systems consists of sdBs in close orbits around white dwarfs (WDs). The analysis of new data from large space-based light curve (TESS, Kepler, K2) and ground-based spectroscopic (SDSS, LAMOST) surveys allowed us to characterize the population of sdB+WD binaries in much more detail. Here we present updated constraints on binary fractions and the fundamental parameters of those binaries. Based on this new observational evidence, we come to the conclusion that several different evolutionary paths are needed to explain the population of sdB+WD binaries.