

HYDROGEN-DEFICIENT COMPACT PULSATORS, THE GW VIR STARS AND DB WHITE DWARFS

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The so-called Born-Again stars, when they reenter the curve leading to the white dwarf branch, pass through the GW Vir instability region. The GW Vir compact pulsators are mainly composed of PG 1159 stars. However, Wolf-Rayet Central Stars of Planetary Nebula [WCE] can also be GW Vir stars. I will show how GW Vir stars' variable helium, carbon and oxygen abundances can influence their stability, and how the comprehension of their driving mechanism helps to establish their surface gravity and effective temperature. I will also discuss the effect of diffusion and mass loss on GW Vir stars reaching the red edge of the instability strip.

The other family of hydrogen deficient compact pulsators are the DB white dwarfs. They are believed to be PG 1159 stars' descendant. I will present a short overview of recent progress made in modelling these stars.