
What Determines the Variability of P Cygni – Binarity or Pulsation?

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Abstract

LBVs are extremely rare and enigmatic stars on the short-lived evolutionary phase with different variation scales of brightness and spectrum. Some of them are confirmed binary systems and even secondary components have found by direct imaging. Generally, binarity plays an important role in the evolution of massive stars and particularly in LBVs and probably provokes their great eruptions. We are presenting analysis of long duration UBV light curves of P Cygni and trying to suggest reasonable explanations of their complex behaviors.

Keywords: evolution of massive stars, LBVs, great eruptions, supernova impostor, P Cygni

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