

# The Theoretical UV Line Profile of Zeta Aurigae Type Stars

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This paper describes a method for the determination of wind parameters as mass-loss rates, wind velocity, and stochastic velocity in Zeta Aurigae type binaries. A generalized method for obtaining these parameters is outlined theoretically by Hempe (1982) and the computer code made by Baade (1989). We have modified the Baade (1989)'s computer code to analyze the wind parameters of Zeta Aurigae type binaries according to the least square criterion. The modified program adjusts the wind parameters by the method of differential corrections. We have applied this method to the IUE observations of 32 Cygni. We have fitted a theoretical line profile to the IUE observations of FeII resonance line at various phases. The mass-loss rate, wind velocity and stochastic velocity of 32 Cygni obtained in this paper are  $2.18 \times 10^{-8}$  Mo/yr, 132.14 km/s, 39.82 km/s, respectively.

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