

# A Rediscussion of the Apsidal Motion of CW Cephei

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The observations of the apsidal motions in close binary systems with elliptic orbits are very important because their apsidal motion rates give direct information on stellar interiors. Since the discovery of its apsidal motion by Nha (1975), the apsidal motion of the close binary CW Cephei (HD 218066,  $S_p=B0.6+B0.7$ ,  $P=2.^d729$ ) has been repeatedly studied by many investigators mainly because of its high masses ( $11.7M_{\odot}+11.0M_{\odot}$ ) and the fastest apsidal precession ( $\sim 40$  years) among the binary systems that show apsidal motion in the northern hemisphere. In this paper we redetermined the apsidal motion parameters for CW Cephei, based on analysis of all the published times of minimum lights including the newly obtained three epochs from the *UBV* observations of the star that will be presented separately in this meeting. From our results the stellar structure of CW Cephei is investigated and compared to those of other apsidal motion binary systems.

## Reference

Nha, I.-S., 1975, *AJ*, 80, 232