

Photoelectric Observations of the Algol System AI Dra

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AI Dra is an Algol-type eclipsing binary system. Narusawa et al.(2002) performed the photometric observations of this system on 5 Aug. and 7 Sep. 2000. They detected the periodic oscillations at the out of eclipse and suggested that AI Dra is a pulsating star.

We performed photoelectric observations of AI Dra with the 60cm reflector of Nishi-Harima Astronomical Observatory. on 27 May 2002(heliocentric phase 0.20–0.40). These observations were performed with the same setting as Narusawa et al.(2002).

The light curves obtained from our observations are shown in Figure 1. It does not show the periodic oscillations. Kiss(2002) carried out the photometric observations of this star in July 2002, and also did not detected any short period variability.

These observations suggest the amplitude modulation in the multi-periodic oscillations have occurred in AI Dra. Similar phenomenon is also reported in the pulsating Algol system RZ Cas(Narusawa 1999).

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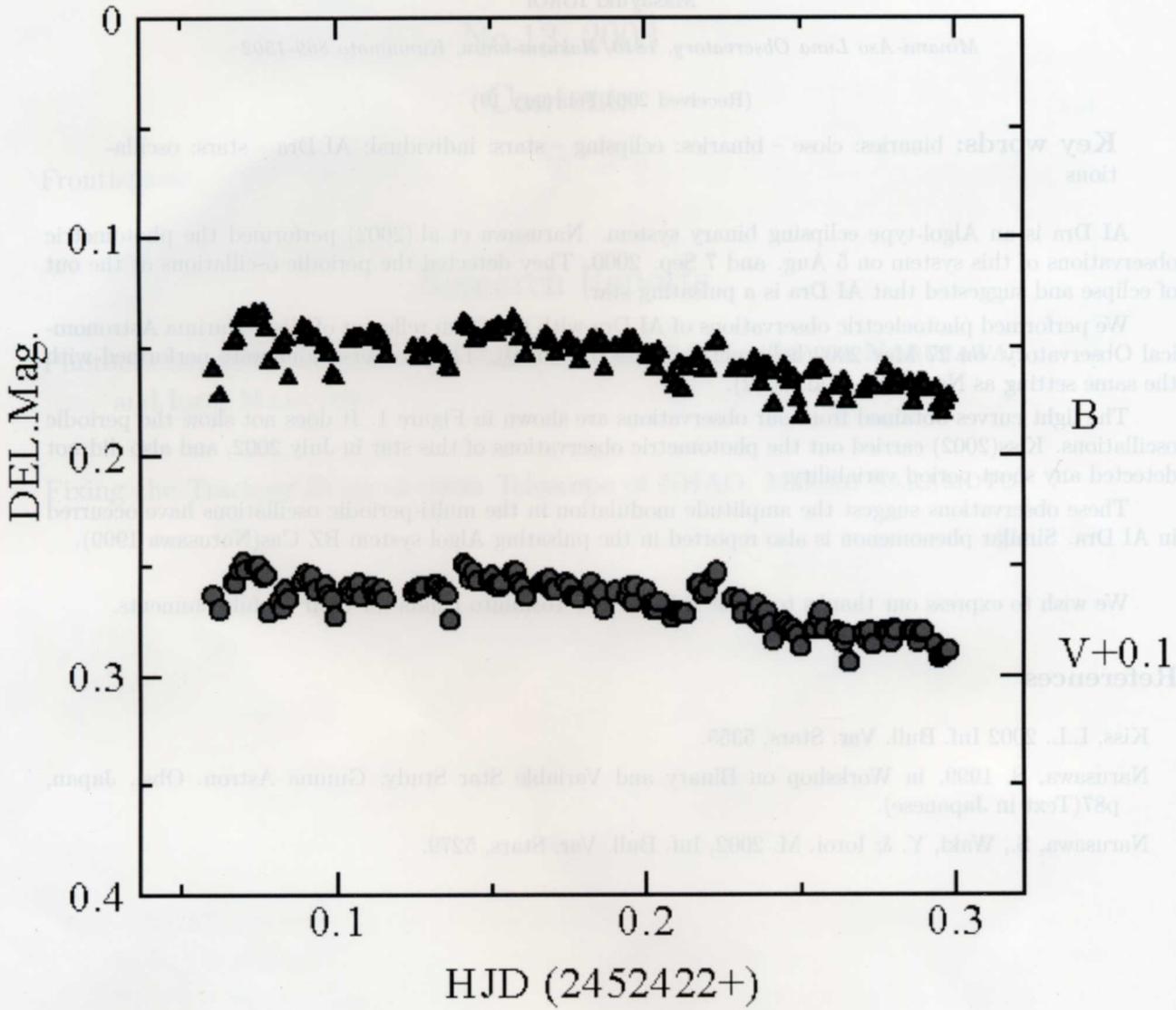


Fig. 1. The light curve of AI Dra.