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SPECTROSCOPIC OBSERVATIONS OF V 471 TAURI
(BD+16°516)

This RS CVn type eclipsing variable was spectroscopically observed at the Astrophysical Observatory of Asiago. Continuous observations cover the period from November 1980 to February 1981. Observations were achieved with the telescopes with 122 and 182 cm diameters. The first instrument is equipped with medium dispersion prism spectrograph (40 \AA mm^{-1} at 4340 \AA) and the second one with high dispersion Reosce Echellé spectrograph (16 \AA mm^{-1} at 6563 \AA). 70 medium and 7 high dispersion spectra were secured with the 122 cm and 182 cm telescopes. Some of the medium dispersion spectra were obtained in a single trail mode (Walker and Chincarini, 1968). 35 spectra were utilized in the computer construction of the radial velocity curve (see Fig.1.) and the spectroscopic orbital elements were calculated.

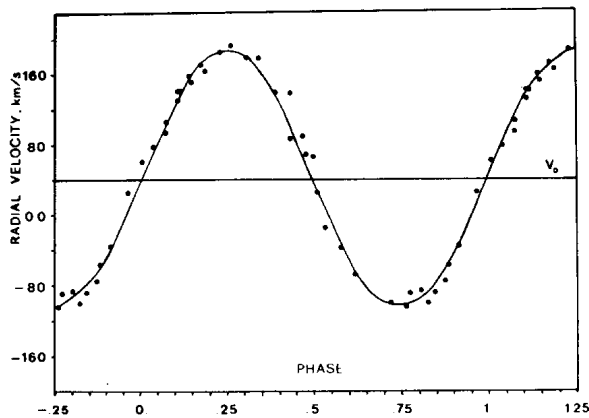


Fig.1. Computer constructed radial velocity curve of V 471 Tauri

The orbital elements and their probable errors can be summarized as:

Elements	Probable Errors
$V_0 = 40.1 \text{ km s}^{-1}$	2.06 km s^{-1}
$P = 0.52118286 \text{ day}$	(assumed constant)
Passage from periastron = $244^{\circ}4970 . 716$	0.027 day
$\omega = 101^{\circ}$	18.9
$e = 0.0548$	0.0275
$a.Sini = 1.07 \times 10^6 \text{ km}$	$2.05 \times 10^4 \text{ km}$
$K = 150 \text{ km s}^{-1}$	2.86 km s^{-1}

Note: Complete references for this star were not repeated
instead they can be found in Hamzaoğlu, 1981.

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