## LETTERS TO THE EDITOR

## A NEW WOLF-RAYET SPECTROSCOPIC BINARY\*

The prevalence of binary nature among Wolf-Rayet stars is a curious phenomenon but one that has contributed toward an understanding of these peculiar stars. However, a model for these stars still remains obscure. Although the presently known Wolf-Rayet binaries (especially the eclipsing ones) are still inadequately observed, the discovery of still other binaries in which one component is a Wolf-Rayet may lead to new information. Upon inspecting the illustration of the spectra of three newly discovered Wolf-Rayet stars in Cygnus by Herbig and Mendoza (1960) it was obvious that their Wolf-Rayet star No. 2—No. 1 in the illustration; No. 422 in Merrill and Burwell (1950) may well be a binary because of the relatively strong continuum in its spectrum. Conse-

TABLE	1
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No.	Date	UT	V km/sec
15234   15235   15239   15240   15245   15245   15246   15264   15267   15269   15275   15275   15281   15283   15298   15301	1960, May 6 May 6 May 7 May 7 May 8 May 9 May 11 May 12 May 13 May 14 May 14 May 14 May 17 June 6 June 8 June 16 June 17 June 17	8:30 10:21 8:46 10:21 9:55 7:32 7:41 7:10 7:26 6:55 10:08 7:10 10:40 6:50 6:42 7:28 7:30 8:37	$\begin{array}{c} C+0\\ C+50\\ C-50\\ C-25\\ C-25\\ C-25\\ C-25\\ C-190\\ C-165\\ C-270\\ C-165\\ C-220\\ C-205\\ C-220\\ C-205\\ C-295\\ C-295\\ C-295\\ C+295\\ C+50\\ C+65\\ C+15\\ \end{array}$
15303	June 17	9:44	C+0

quently, a series of nineteen spectrograms was obtained with the Gf/1 Cassegrain spectrograph of the McDonald Observatory. This combination gives a dispersion of 200 A/mm at He II 4686. Only the above line, which is 25 A wide, was measured for radial velocity. The observations are recorded in Table 1. The first column refers to the spectrogram numbers in the McDonald spectroscopic observing book. The second and third columns record the date and U.T. of the observations. The last column gives the radial velocity. The velocities are given relative to the first in the series, that is, 15234. These velocities are plotted in Figure 1. It is quite obvious that the radial velocity is variable with a semiamplitude of 150 km/sec. However, the period is not uniquely defined. Periods of approximately 45 days, 22 days, and two near 1 day will all satisfy the observations.

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