

PUBLICATION

OF THE

Dominion Astrophysics

VICTORIA

Vol. I, No. 1

THE ORBITS OF THE SPECTROSCOPIC

BY S. L. BOYD

This star ($\alpha = 18^h 07^m 5^s$, $\delta = +79^\circ 59'$) was one of the first twelve binaries discovered at Victoria, B.C., the announcement of which was made by the "Astronomical Society of Canada" for November 1917.

Dr. J. S. Plaskett secured five plates of this star for radial velocity determinations, between June 19 and July 21, 1918. The spectrograms revealed the binary character of the star. On June 18, 1919, 28 plates were secured. All of these plates, except in 1918, were measured on the Hartmann Comparison Spectrograph. From the measures of the first 14 or 15 of these plates, it was possible to get the remaining plates well distributed. The measures of 1918 the period was found to be 1.14 days. It was possible to get the remaining plates well distributed. The velocities did not, however, agree well with a period of 1.14 days. The same phase showed as reasonable agreement. On plate number 2923 on the Hartmann Comparison Spectrograph a closer examination of the plate revealed clear double lines. A re-examination of all of the previous plates secured by Plaskett in 1918, showed that on seven of these plates the lines were double. Since the lines of the two components are just