

COMPARISON OF RESULTS, (Continued).

Star	Dominion Observatory			Other Observers			
	Plate No.	Date	Velocity	Observer	Velocity	No. of Plates	Range
<i>w</i> 10,102	330	July 4	- 3.4	Frost	- 2.3	3	1.6
	336	July 6	0.6	Adams	2.0		1.3
	411	Oct. 16	2.3	Campbell	2.2		10
				Belopolsky	2.9	8	3.7
		Mean - 2.1		Lord and Maag	+ 0.6	5	3.7
		Range	2.8	Newall	- 2.6	14	5.7
				Vogel	3.2	13	3.3
				Newall	4.6	5	5.5
				Slipher	2.5	5	1.3

CONCLUSION.

As evidence of the success attending the improvement of the spectrograph there is inserted above, an abridgment of the reduction sheet of a spectrum of β Geminorum, showing the agreement between the velocities obtained for the different star lines. I also include a summary of the results obtained for seven of the "standard velocity stars," and, for convenience of reference and comparison, the values obtained by other observers so far as known to the writer, with the range or difference between the greatest and least velocity.

It must be remembered in comparing the Ottawa results with those of other observers that the dispersion of the instrument used here is about 40 per cent. less, thus increasing the relative error of setting on the lines; that our results were obtained from an adapted universal spectroscope which has never before been successfully used in radial velocity work, and finally that practically all the spectra here given were made within eight months of starting work on the spectrograph, the instrument during that period having been investigated and corrected in the manner detailed above.

It gives me pleasure to acknowledge here the able part taken by Mr. W. E. Harper in the observation of some and the measurement and reduction of many of the spectra and I am glad also of this opportunity of signifying my appreciation of the help and encouragement so readily given by Dr. W. F. King, Director of the Observatory, in the prosecution of the work.