

MEASURES OF ABSORPTION BANDS

Plate	Camera	Date G. M. T.	Velocity Absorption	Lines	Wt	Sharp H and K	Wt
4928	Im	1920, Aug. 24 694	- 615	8	24	-15.2	6
4929	"	" 24 707	- 661	11	24	-17.4	6
4932	"	" 25 716	- 797	8	14	-19.6	5
4933	"	" 25 731	- 879	8	24	-16.6	6
4934	Is	" 25 760	- 847	9	2	-19.3	3
4938	Im	" 27 704	-1103	7	14	-15.5	6
4939	"	" 27 716	-1099	8	2	-17.1	5
4942	"	" 29 660	-1077	8	14	-17.2	6
4943	"	" 29 684	-1135	2	1	-16.4	6
4966	"	" 30 710	-1111	2	1	-19.1	5
4961	"	" 30 716	-1190	2	1	-18.0	6
4977	"	" 31 744	-1110	2	1	-17.2	6
4989	"	Sept. 1 715	-1218	2	1	-15.4	5
5010	"	" 2 759	-1196	2	1	-14.7	6
5011	Is	" 2 778	-1164	3	1	-16.0	1
5052	Im	" 6 777	-1185	3	1	-18.0	6
5081	"	" 21 765	.....	.....	.....	.....	.....
5093	Is	" 27 753	.....	.....	.....	.....	.....
5111	Im	" 28 727	.....	.....	.....	.....	.....

The foregoing table summarizes the measures of the absorption bands. At the first, 9 or so of the best of the broad bands were used, but by the end of August, as their positions seemed to undergo no further change, only two or three of the best were measured. These latter results will hence not have quite the accuracy of the first eight, but they will closely approximate the correct values as the interagreement was good. The principal bands besides the hydrogen ones and the calcium H and K were the enhanced iron lines at $\lambda\lambda 5169$, 5018 and 4924. Others were measured and their wave lengths calculated on the assumption that they had suffered displacements similar to the known ones. Thus on the plate of Sept. 6 the following broad absorption bands were present:

4623	4476
4586	4472
4555	4450
4497	4424

SHARP H AND K CALCIUM ABSORPTION

Attention has been called to the fine, undisplaced calcium lines, and the foregoing table also contains the measures of the 16 plates on which the lines are seen. The velocity appears to be quite constant with a mean value -17.0 ± 0.25 km. per sec., practically identical with the component of the solar motion in that direction. Thus, if these lines,