

BOSS 744

(1900, $\alpha = 3^h 42^m \cdot 0$, $\delta = +49^\circ 43'$, mag. 5.08, type B3)

The hydrogen lines in the spectrum of this star are about 10 angstroms wide and thus there is considerable uncertainty in the measures. The lines $\lambda 4471$ and $\lambda 4026$ are the only ones seen of the helium series and they are very faint. It is not likely that the range shown in the measures represents a real variation in velocity.

Plate	Date, G.M.T.	Number of lines	Velocity
S331	1917, Nov. 4.787	4	- 6
S339	" 7.779	6	32
S678	1918, Nov. 5.659	1	- 1
S689	Dec. 9.691	3	-16

MEASURES OF BOSS 744

λ	S331		S339		S678		S689							
	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.
4861-527	- 2.1	$\frac{1}{4}$	-46.5	$\frac{1}{4}$	+22.3	$\frac{1}{4}$	-39.3	$\frac{1}{4}$						
4171-676	-46.0	$\frac{1}{8}$	-56.6	$\frac{1}{4}$	-18.7	$\frac{1}{4}$								
4340-631	+ 1.1	$\frac{1}{4}$	-25.3	$\frac{1}{2}$	-23.8	$\frac{1}{2}$	- 5.5	$\frac{1}{2}$						
4101-890	-21.5	$\frac{1}{4}$	-14.7	$\frac{1}{8}$	+ 3.8	$\frac{1}{4}$	+13.8	$\frac{1}{8}$						
4026-352			-32.7	$\frac{1}{8}$										
3970-177			61.8	$\frac{1}{8}$										
Weighted mean	- 43.09		- 38.41		- 8.00		- 8.12							
V_L	+ 7.55		+ 6.25		+ 7.28		+ 7.88							
V_U	- .09		- .09		+ .09		- .09							
Curv	- .28		- .28		- .28		- .28							
Radial Velocity	- 5.9		32.2		- 0.9		16.1							