

42 PERSEI

(1900, $\alpha = 3^h 43^m \cdot 2$, $\delta = +32^\circ 48'$, mag. 5-10, type A)

This star was announced a binary by Adams in *Astrophysical Journal*, XXXV, 174, from 4 plates, in 1911. Our measures indicate that the period is short.

Plate	Date, G.M.T.	Velocity	Lines
6311	1914, Aug. 25-870	-44	7
6459	Oct. 1-802	-28	6
6468	" 2-744	+19	6
6582	Nov. 27-697	-50	4

MEASURES OF 42 PERSEI

λ	6311		6459		6468		6582							
	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.	Vel.	Wt.
4549	-59.8	$\frac{1}{4}$	-49.6	$\frac{1}{4}$	-9.5	$\frac{1}{4}$								
4534	68.0	$\frac{1}{4}$												
4501			46.0	$\frac{1}{4}$										
4481	63.4	$\frac{1}{2}$	54.4	$\frac{1}{2}$	-5.6	$\frac{1}{2}$	-40.3	$\frac{1}{2}$						
4340	73.1	$\frac{1}{2}$	43.3	$\frac{1}{4}$	-0.8	$\frac{1}{2}$	47.5	1						
4233			47.2	$\frac{1}{2}$										
4202							50.0	1						
4143					-23.6	$\frac{1}{4}$								
4101	68.3	$\frac{1}{4}$												
4063					+16.2	$\frac{1}{2}$								
4045	76.4	$\frac{1}{2}$												
3933	-89.0	$\frac{1}{2}$	-66.6	$\frac{1}{2}$	-2.9	$\frac{1}{4}$	-48.7	$\frac{1}{4}$						
Weighted mean	-72.73		-51.11		-3.24		-47.42							
V_0	+28.71		+22.86		+22.57		-2.29							
V_d	+ .11		+ .07		+ .14		- .02							
Curv.	- .28		- .28		- .28		- .28							
Radial Velocity	-44.2		-28.5		+19.2		-50.0							