

The range shown by the plates of the regular three-prism instrument is 11 km. but if three of these are omitted, in which only about half the usual number of lines are measured, the greatest range is about 3 km. It would appear only reasonable, then, to assume that if the star is a spectroscopic binary its range of variation is very small. On the assumption that its velocity is constant, the mean of either the universal plates or the single-prism plates is +12.3 km. per sec., while for the three-prism it is +14.1 km. per sec. Weighting the single, universal and three-prism arrangements as 1, 2 and 3 the mean velocity is +13.3 km. per second.

MEASURES OF η PISCUM

Plate	Inst.	Date	Vel	<i>n</i>	Remarks
		1906			
403	V	Sept. 27-847	+10.7	7	
		1907			
551	"	Jan. 18-543	+ 3.6	26	
562	"	" 21-550	+16.3	25	
568	"	" 22-604	+10.7	28	
584	"	" 28-526	+10.0	28	
588	"	" 30-552	+ 5.1	23	
595	"	Feb. 4-542	+16.3	17	
598	"	" 6-521	+ 6.5	29	
606	"	" 7-529	+26.4	10	plate underexposed
608	"	" 8-512	+17.9	14	
616	"	" 21-487	+ 5.2	18	
617	"	" 21-520	+18.1	23	
621	"	" 22-500	+ 3.8	20	temperature change
625	"	" 25-539	+21.4	24	
634	"	" 25-543	+18.6	24	
635	"	" 25-580	+18.5	8	
641	"	" 27-507	+10.9	25	
642	"	" 27-544	+16.0	15	
955	I L.	July 18-799	+ 0.6	7	
1003	III L.	Aug. 10-494	+18.4	9	
1036	I L.	Sept. 6-750	+ 8.0	17	
1041	"	" 12-767	+12.9	17	
1051	"	" 18-660	+19.1	18	
1054	"	" 18-781	+13.2	19	
1057	"	" 18-885	+ 8.5	10	plate underexposed
1095	III L.	Oct. 8-734	+12.2	26	
1096	"	" 8-799	+12.2	25	
1102	"	" 18-670	+13.0	16	
1103	"	" 22-647	+15.1	14	
1104	"	" 23-644	+11.8	25	
1105	"	" 23-697	+13.9	18	
1107	"	" 25-633	+13.2	19	
1164	"	Nov. 29-543	+14.3	17	
1165	"	" 29-589	+12.3	21	
1173	"	Dec. 4-577	+11.4	18	
1187	"	" 21-483	+14.1	18	