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FIVE STARS WHOSE RADIAL VELOCITIES VARY.

In carrying out the programme of the D. O. Mills Expedition, the radial velocities of the following additional stars have been found to vary:

δ FORNACIS ($\alpha = 3^h 38^m 3$; $\delta = -32^\circ 15'$; Mag. = 4.9;
Type = B5).

Gr. M. T.	Velocity	Measured by
1907 Dec. 17.554	+64 km.	Paddock
1909 Nov. 10.597	+12	Moore
1909 Dec. 16.654	-25	Paddock

The variable velocity was discovered by Moore.

27 CANIS MAJORIS ($\alpha = 7^h 10^m 2$; $\delta = -26^\circ 10'$; Mag. = 4.7;
Type = B5).

Gr. M. T.	Velocity	Measured by	Remarks
¹ 1908 Nov. 10.029	+100.8 km.	Albrecht	
¹ Dec. 5.971	+ 95±	Albrecht	Underexposed
Dec. 24.794	+ 88.6	Albrecht	
1909 Feb. 8.660	+ 86	Curtis	
¹ March 31.681	+ 99.4	Albrecht	
Dec. 6.705	+117.1	Paddock	
20.782	+115.1	Paddock	
22.772	+115.1	Paddock	

The variable velocity was suspected by Albrecht after measuring the third plate, suspected independently by Paddock, and confirmed by Paddock.

¹ Mt. Hamilton plates.

χ LUP1 ($\alpha = 15^h 44^m 6$; $\delta = -33^\circ 19'$; Mag. = 4.1;
Type = B9).

Gr. M. T.	Velocity	Measured by	Remarks
1909 July 12.592	- 10.2 km.	F. C. Moore	
Aug. 30.501	-101.4	Paddock	Lines double
	+ 38.5		
Sept. 6.523	- 58.5	Paddock	Lines double
	+ 53.0		

The variable velocity was discovered by Paddock.

θ SAGITTARI ($\alpha = 19^h 53^m 2$; $\delta = -35^\circ 33'$; Mag. = 4.4;
Type = B3).

Gr. M. T.	Velocity	Measured by
1908 May 23.892	-12 km.	Curtis
June 10.858	+ 6	Paddock
1909 July 5.785	-15.0	Paddock
Aug. 28.646	+15.0	Moore

The variation was discovered by Paddock.

ζ SCULPTORIS ($\alpha = 23^h 57^m 2$; $\delta = -30^\circ 16'$; Mag. = 5.0;
Type = B5).

	Gr. M. T.	Velocity	Measured by	
1908	Aug. 5.844	+ 3.9 km.	Paddock	
		15.857	+11	Curtis
	Nov. 10.581	+13.4	Paddock	
1909	July 27.910	— 2.6	Moore	
	Aug. 15.863	+ 2.4	Moore	
	Nov. 23.556	—18.0	F. C. Moore	

The variation was found by Paddock.

JOSEPH H. MOORE,
In charge of Expedition.

SANTIAGO, CHILE,
December 31, 1909.