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Project PHaEDRA - Henrietta Swan Leavitt #09

Extracted on Mar-29-2024 10:35:03

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[[preprinted]] 14 [[/preprinted]]

September 6, 1904

Measures to determine Position of Var. 5 in Sagittarius
Plate A 4700
|x|y|x|y|Diffx|Diffy|xtimes4.34|
Var.5|-1.05 [strikeout-0.05]|-0.95|-1.05|-0.95|
|-9.32|[This may be another result for -9.30 underneath]
a|-9.30|+1.75|-9.35|+1.75|-8.27|+2.70|-35.89|
|+5.82|[This may be another result for +5.80 underneath]
b|+5.80|+6.90|+5.85|+6.90|+6.87|+7.85|+29.82|
|5.72|-7.78|[This may be another result for +5.70 and -7.80 underneath]
c|+5.70|-7.80|+5.75|-7.75|+6.77|-6.83|+29.38|
Var.5|||-1.05|-0.95
Mean var.|-1.05|-0.95
a|DM|-22°|4539|17h55m25.9s|-22°41.0"|9.0
b|DM|-22°|4552|17h56m31.7s|-22°35.8"|10
c|DM|-22°|4551|17h56m30.6s|-22°50,9"|9.8
sec=1.084
4sec=4.336

(a) 17h55m25.9s -22°41.0'
+35.9 +2.7
---
17 56 1.8 -22 43.7
[strikethrough 54 and 50.0 in favor of 56 and 1.8]

(b) 17h56m31.7s -22°35.8'
+29.8 +7.8
---
17 56 1.9 -22 43.6

(c) 17h56m30.6s -22°50.9'
+29.4 -6.8
---
17 56 1.2 -22 44.1

Mean pos.17h56m1.6s -22°43.8' (1855)

Ann.prec.in RA=+3.631s Prec.45years=+163.40s=2m43.4s
[strikethrough163.35]
Ann. prec.in Dec.=-0.35" Prec.45 years=-15.75"=-0.3'
Mean position Var.5= 17h58m45.0s -22°44.1' (1900)

[[end page]]
[[start page]]

[[preprinted]] 15 [[/preprinted]]

September 6, 1904

Meas. to det. Pos. of Var. 6 ^[[and 7]] in Sagittarius
Plate A 4700

					Var. 6	Var. 6		Var. 7	Var. 7	
	x	y	x	y	Diffx	Diffy	X x 4.34	Diffx	Diffy	X x 4.34
Var. 6	-1.30	+2.50	-1.35	+2.55						
Var. 7	-0.20	-4.95	[[strikethrough]] +1.12 [[/strikethrough]]							
[[strikethrough]] +2.42 [[/strikethrough]]			-42.36	a -10.88	+10.17	-47.22				
a	-11.05 ^[[-11.08]]		+5.25 ^[[+5.22]]		-11.10	+5.20	9.76	+2.69	-38.97	
b -10.10	-2.43	-43.83								
c	+0.60	+4.30 ^[[+4.28]]		+0.60	+4.25	c +1.92	+1.75	+8.33	c +0.80	+9.23
[[strikethrough]] +34.7 [[/strikethrough]] 3.47										
d	+12.90	-5.70 ^[[-5.72]]		+12.90 -5.75	+14.22	-8.25		d +13.10	-0/77	+ 56.85
Var. 6	mean -1.32	+2.53	-1.30	+2.55						
Var. 7	mean -0.20	-4.95	-0.20	-4.95						

a{CPD -22 degrees 6705 18h 0m 6.8s -22 degrees 54.5 9.0
a{DM -22 degrees 4569 17h58m 54.0s -22 degrees 54.4'
b CPD -23 degrees 6857 18h 0m 10.3s -23 7.1 8.0
c{CPD -22 degrees 6724 18h 0m 56.8s -22 degrees 55.61
c{DM -22 degrees 4578 17h 59m 48.6s -22 degrees 55.5
d CPD -23 degrees 6881 18h 1m 49.3s -23 degrees 5.6'

sec delta = 1.086 (a)
4 sec delta = 4.344 (Var.6) [[equation]] (b) [[equation]]
(c) [[equation]]
Mean pos. Var. 6 = 18h 0m 49.0s -22 degrees 57.3'
Mean pos. Var. 7 = 10 0 53.3 -23 degrees 4.8'

(b) [[equation]] (c) [[equation]]
Prec. 25 years, +1m 31.0s +/- 0.0' (as given in C.P.D.)

Mean Position Var. 6 18h 2m 20.0s -22 degrees 57.3' (1900)
" " "[[ditto for Mean Position Var.]] 7. 18 2 24.3 -23 4.8 (1900)

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