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*Harvard-Smithsonian Center for Astrophysics*

## **Project PHaEDRA - Henrietta Swan Leavitt #09**

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September 10, 1904

Measures to determine Position of Var. 8 in Sagittarius

Plate A 4700

| x | y | x | y | Diff x | Diff y | X x 4.34

Var. 8 | ~~[[/del]] -9.90 ~~[[/del]] -6.10 ~~[[/del]] +4~~~~~~

~~[[/del]] -1.40 ~~[[/del]] -6.10 ~~[[/del]] -1.35 | | |~~~~~~

a | -9/90 | +4.25 | -9.90 | +4.25 | 3.80 | +2.87 | -1 ~~[[/del]] 3~~

~~[[/del]] 6.49~~

b | -3.65 | ~~[[/del]] -6.85 ~~[[/del]] -5.65 <sup>^</sup>[5.68] | -3.65 | -~~~~

5.70 | +2.45 | ~~[[/del]] -4.30 ~~[[/del]] -7.06 | +10.63~~~~

c | +0.15 | +2.40 | +0.15 | +2.40 | +6.25 | +1.02 | +2.12

Var. 8 | | | -6.10 | -1.40 | | |

Mean var. | -6.10 | +1/38

a CPD -22 degrees 6622 17h 56m 36.3s -22 degrees 54.4 9.3

b -23 degrees 6798 57m 3.3s -23 degrees 4.6 10.5

c -22 degrees 6650 57m 20.5s -22 degrees 56.5 9.7

(a) ~~[[/del]] (b) ~~[[/del]]~~~~

(c) ~~[[/del]]~~

Mean position 8.; 17h 56m 53.0s -22 degrees 57.4 (1875)  
Prec. 25 years +1m 31.0 -0.1s (as given by CPD catalogue)

Mean Position 8, 17h 58m 24.0s -22 degrees 57.5m (19000

[[end page]]

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[[underlined]] September 19, 1904 [[/underlined]]

Measures to determine Position of Asteroid Hygeia

Plate A 4600

| x | y | x | y | Diff x | Diff y | X x 4.36

Hygeia | +4.20 | +2.35 | +4.20 | +2.35 | | |

"[[ditto for Hygeia]] | +4.45 | +2.40 | +4.40 | +2.40 | | |

A 460047 | -11.50 | +1.50 | -11.50 | +1.50 | -15. ~~[[/del]] 92~~

~~[[/del]] 81 | -0.8 ~~[[/del]] 2 ~~[[/del]] 7~~~~~~

1 50 | +2.60 | +4.70 <sup>^</sup>[+4.72] | +2.60 | +4.75 | 1 ~~[[/del]] .82~~

~~[[/del]] .71 | +2. ~~[[/del]] 40 ~~[[/del]] 35~~~~~~

52 | +12.40 | -1.90 <sup>^</sup>[-1.88] | +12.40 | -1.85 | + ~~[[/del]] 7.98~~

~~[[/del]] 8.09 | -4.2 ~~[[/del]] 0 ~~[[/del]] 5~~~~~~

Hygeia | +4.20 | +2.35

"[[ditto for Hygeia]] | +4.40 | +2.35

Mean Var. | +4. ~~[[/del]] 42 ~~[[/del]] 31 | +2.3~~~~

~~[[/del]] 2 ~~[[/del]] 7~~~~

The following image of Hygeia was fainter.



Hygeia

(a) C.P.D. -23 degrees 6647 17h 39m 29.6s -23 degrees 31.1 (b)  
[[equation]]  
(b) -23 degrees 6650 17h 40m ~~12.6~~ ~~12.6~~  
30.1s -23 degrees ~~34.9~~ ~~28.0~~  
(c) -23 degrees 665 ~~25~~ ~~17h 40<sup>41</sup>m~~  
46.6<sup>12.6</sup>s -23 degrees ~~11.2~~ ~~34.9~~

sec delta = 1.090

4 sec delta = 4.36 (a) [[equation]] (c) [[equation]]

Mean position of Asteroid 17h 40m 37.8s -23 degrees 30.4' (1875)

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