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Harvard-Smithsonian Center for Astrophysics

Project PHaEDRA - Henrietta Swan Leavitt #21

Extracted on Apr-18-2024 08:57:30

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[[preprinted]] 10 [[/preprinted]]

Position of Ref. Star

| Diff 1 x | Diff 2 x | Diff 1 y | Diff 2 y | Mean x X 4 sec alpha

533 | -22.65 | -22.70 | +18.05 | +18.03 | -95.26

536 | -8.85 | -8.85 | -17.50 | -17.47 | -37.08

537 | -3.65 | -3.70 | -21.15 | -21.07 | -15.38

538 | +1.15 | +1.15 | +33.35 | +33.38 | +4.83

539 | +6.05 | +6.05 | -14.20 | -14.22 | +25.35

540 | +10.35 | +10.35 | +33.65 | +33.68 | +43.47

541 | +11.40 | +11. ~~[[/strikethrough]]~~ 4 ~~[[/strikethrough]]~~ 35 | -14.50 | -14.52 | +47.85

542 | +13.45 | +13.45 | -0.65 | -0.62 | +56.49

533

[[formula]]

536

[[formula]]

537

538
[[formula]][[formula]]

539

540
[[formula]] [[formula]]

541

542
[[formula]] [[formula]]

Position of Ref. Star

3^h 13^m 33.1^s +17° 26.6'

[[end page]]

[[start page]]

[[preprinted]] 11 [[/preprinted]]

[[underline]] Friday, March 2, 1906 [[/underline]]

Measures to determine the position of sixth satellite of Jupiter
Plate A 3709

| x | y | x | y | x | y | Mean x

Sat. 6 | +~~[[/strikethrough]]~~ 3.00 | -5.00 | +3.00 | -3.00 | +8.00 | -2.00

Ref. star | +4.15 | -7.70 | +3.15 | -5.70 | +9.15 | -4.65

10 | -7.40 | +0.85 | -8.40 | +2.95 | -2.40 | +3. ~~[[/strikethrough]]~~ 7

~~[[/strikethrough]]~~ 85

12 | -0.80 | ~~[[/strikethrough]]~~ -7.75 ~~[[/strikethrough]]~~ -17 | -1.90 | -

~~[[/strikethrough]]~~ 5 ~~[[/strikethrough]]~~ 15.70 | +4.20 | - ~~[[/strikethrough]]~~ 4

~~[[/strikethrough]]~~ 14.75

24 | +43.95 | +4. ~~[[/strikethrough]]~~ 7 ~~[[/strikethrough]]~~ 30 | +43.00 | +6.20 | +49.00 | +7.35

Sat. 6 | +3.00 | -5.00 | +2.00 | -3.00 | +8.00 | -2.00

Ref. star | +4.20 | -7.70 | +3.15 | -5.65 | +9.15 | -4.70

The image shows two pages of handwritten astronomical observations. The left page is numbered 10 and the right page is numbered 11. Both pages contain tables of measurements, likely for determining the position of the sixth satellite of Jupiter. The tables include columns for various measurements such as 'Diff 1 x', 'Diff 2 x', 'Diff 1 y', 'Diff 2 y', and 'Mean x'. The handwriting is in cursive and the paper appears aged. The right page has a title 'Measures to determine the position of sixth satellite of Jupiter' and a subtitle 'Plate A 3709'.

Mean Sat. 6 | +3.00 | -5.00 | +2.00 | -3.00 | +8.00 | -2.00
Mean Ref. Star | +4.18 | -7.70 | +3.15 | -5.68 | +9.15 | -4.68

The images of all the figures are very large and irregular. The satellite is very faint; scarcely seen.

Compared with Satellite

| | Diff 1 x | Diff 2 x | Diff 1 y | Diff 2 y | Mean x | Res. | Mean y | Res.
10 | -10.40 | -10.40 | -10.40 | +5.85 | +5.95 | +5.85 | -10.40 | 00,00,00 |
+5.88 | 03,07,03
12 | -3.80 | -3.90 | -3.80 | - ~~2~~ 12.75 | -
~~2~~ 12.70 | - ~~2~~
~~12.75~~ | -3.83 | 03,03,03 | -12.73 | 02,03,02
24 | +40.90 | +41.00 | +41.00 | +9.30 | +9.20 | +9.35 | +40.97 | 07,03,03 |
+9.28 | 02,08,07

Compared with Ref. Star

10 | -11.58 | -11.55 | -11.55 | +8.55 | +8.63 | +8.53 | -11.56 | 02,01,01 |
+8.57 | 02,06,04
12 | -4.98 | -5.05 | -4.95 | -10.05 | -10.02 | -10.07 | -4.99 | 01,06,04 | -
10.05 | 00,03,02
24 | +39.77 | +39.85 | +39.85 | +12.00 | +11.88 | +12.03 | +39.82 |
05,03,03 | +11.97 | 03,09,06

| | Mean x | Res. | Mean y | Res. | Satellite Diff x | Satellite Diff y | Ref.
star Diff x | Ref. star Diff y

Sat. | 10.00 | 00,00,00,00,00,00 | 10.00 | 00 | | | |
Ref. star | 11.16 | 01,00,00,04,01,01 | 7.32 | 02,02,03,02,03,02 | +
~~10.40~~ 1.16 | -2.68 | | |
10 | 0.40 | 00,00,00 | 15.88 | 03,07,03 | - ~~16.17~~
~~10.40~~ +5.88 | -11.56 | -18.56
12 | 6.17 | 03,07,03 | ~~7.27~~ 2.73 |
02,03,02 | ~~16.17~~ -3.83 | -12.73 | -4.99 |
-10.05
24 | 50.98 | 03,02,02 | 19.28 | 02,08,07 | +40.98 | +9.28 | +39.82 |
+11.96

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