

## Elements.

Epoch 1900 June 30.817165 Gr. M. T.

$$\begin{aligned}
 M &= 350^{\circ} 22' 16''.9 \\
 \omega &= 196 \quad 8 \quad 5.5 \\
 \Omega &= 97 \quad 36 \quad 55.6 \\
 i &= 6 \quad 56 \quad 23.1 \\
 \varphi &= 16 \quad 22 \quad 55.0 \\
 \mu &= 1122'' 174 \\
 a &= 2.154257 \\
 P &= 1154^d 901
 \end{aligned}
 \left. \vphantom{\begin{aligned} M \\ \omega \\ \Omega \\ i \\ \varphi \\ \mu \\ a \\ P \end{aligned}} \right\} 1900.0$$

The magnitude of the asteroid was estimated by Mr. Palmer to be between 15 and 16.5. Adopting 15.75 we find  $g = 16.1$  and  $m_0 = 18.1$ . The asteroid is therefore the faintest so far observed.

According to our elements the next opposition will take place 1902, January 4.3 Gr. M. T. The magnitude of the asteroid at opposition will be  $19.5 \pm 0.75$ . It is therefore extremely unlikely that the asteroid will be observed at this opposition. The following ephemeris has been computed by Miss *Hobe* to aid astronomers who have the necessary equipment in searching for this interesting object.

Ephemeris for 12<sup>h</sup> Greenwich.

1901-02	$\alpha$ app.	$\delta$ app.	$\log r$	$\log A$	1902	$\alpha$ app.	$\delta$ app.	$\log r$	$\log A$
Nov. 30	7 <sup>h</sup> 33 <sup>m</sup> 1	+21° 38'	0.4341	0.2822	Jan. 1	7 <sup>h</sup> 2 <sup>m</sup> 7	+23° 42'	0.4382	0.2460
Dec. 8	27.8	22 5	4353	2678	9	6 53.0	24 11	4390	2479
16	20.7	22 36	4364	2553	17	43.7	24 37	4396	2545
24	12.2	23 9	4374	2489	25	35.4	24 58	4402	2654
Jan. 1	7 2.7	+23 42	0.4382	0.2460	Febr. 2	6 28.7	+25 15	0.4406	0.2797

University of California, Berkeley, California, October 1901.

## Elements of Planet 1901 GV.

From the observations made at Rome by Prof. E. Millosevich on the 12<sup>th</sup>, 16<sup>th</sup> and 20<sup>th</sup> October (A. N. 3746), I have deduced the following approximate elements of the planet 1901 GV. The small intervall of the times renders the determination of the elements very uncertain.

Epoch 1901 Oct. 16.0 Berlin M. T.

$$\begin{aligned}
 M &= 264^{\circ} 18' 4'' \\
 \omega &= 1 \quad 2 \quad 31 \\
 \Omega &= 138 \quad 7 \quad 24 \\
 i &= 8 \quad 57 \quad 29
 \end{aligned}
 \left. \vphantom{\begin{aligned} M \\ \omega \\ \Omega \\ i \end{aligned}} \right\} 1901.0
 \begin{aligned}
 \varphi &= 9^{\circ} 28' 6'' \\
 \mu &= 654'' 9 \\
 \log a &= 0.489218
 \end{aligned}$$

Observations of this planet are respectfully requested.

Ponta Delgada, Açores, 1901 Nov. 16.

Manoel Soares de Mello e Simas.

**Zusatz des Herausgebers.** Aus den vorstehenden Elementen hat Dr. *E. Strömberg* für die weitere Verfolgung des Planeten eine Ephemeride gerechnet, welche mehreren Sternwarten direct zugegangen ist. Nach einer später eingegangenen Mittheilung von Prof. *Bauschinger* ist der Planet identisch mit (202) Chryseis.

Kr.

## Observations of Minor Planet 1901 GV

made at the Vassar College Observatory, Poughkeepsie, N. Y., by *Mary W. Whitney*.

1901	Gr. M. T.	$\Delta\alpha$	$\Delta\delta$	Vgl.	$\alpha$ app.	$\log p \cdot \Delta$	$\delta$ app.	$\log p \cdot \Delta$	Red. ad l. app.	*
Oct. 18	15 <sup>h</sup> 17 <sup>m</sup> 45 <sup>s</sup>	-1 <sup>m</sup> 36 <sup>s</sup> 08	+1' 32" 3	7.4	1 <sup>h</sup> 53 <sup>m</sup> 14 <sup>s</sup> 39	9.284 <sub>n</sub>	-1° 10' 23" 3	0.776	+4 <sup>s</sup> 38 +22" 3	1
Nov. 3	17 11 0	+0 30.65	+3 16.9	10.6	1 41 22.91	9.205	-2 21 40.0	0.786	+4.45 +22.3	2
6	17 23 46	-1 32.69	-6 12.2	10.6	1 39 19.56	9.316	-2 31 9.4	0.786	+4.44 +22.0	2

## Mean Places of the Comparison Stars.

*	$\alpha$ (1901.0)	$\delta$ (1901.0)	Authority
1	1 <sup>h</sup> 54 <sup>m</sup> 46 <sup>s</sup> 09	-1° 12' 17" 9	AG. Nicolaiew 395
2	1 40 47.81	-2 25 19.2	Yarnall 845

**Planet (442) Eichsfeldia.** Die Position für 1901 Nov. 12 ist in Nr. 3750 p. 116 falsch angegeben. Der richtige Werth lautet:  $\alpha = 4^h 53^m 6$   $\delta = +13^{\circ} 23'$ . *Wolf*.

**Planet 1901 HK.** Die bisher noch nicht mitgetheilte Grösse des Planeten ist 13.0 bis 13.5. *Wolf*.

Inhalt zu Nr. 3752. Verzeichniss der seit dem Erscheinen des dritten Chandler'schen Cataloges als sicher veränderlich erkannten Sterne. 133. — *E. v. Gothard*. Beobachtungen des Spectrums der Nova (3.1901) Persei. 141. — *M. Wolf*. Die Nebel um Nova (3.1901) Persei. 143. — *A. Stanley Williams*. New Variable Star 96.1901 Cygni. 145. — *A. O. Leuschner* and *A. M. Hobe*. Elements of Asteroid 1900 GA and Ephemeris for the Opposition of 1901-1902. 145. — *Manoel Soares de Mello e Simas*. Elements of Planet 1901 GV. 147. — *M. W. Whitney*. Observations of Minor Planet 1901 GV. 147. — Kleine Mittheilungen. 147.