Elemente und Ephemeride des Planeten 1910 KU.

Die Bahn wurde berechnet aus den 4 Beobachtungen Rom Okt. 5, 8 und 2 Meridiankreis-Beobachtungen von Dr. *Courvoisier* von Okt. 15 und 17.

Epoche 1910 Okt. 5.5 M. Z. Berlin.

$$\begin{array}{lcl} M = 11^{\circ} 30' 34''.3 & & \varphi = 11^{\circ} 32' 35''.3 \\ \omega = 80 \ 12 \ 52.5 & & \mu = 672'' 729 \\ \delta = 282 \ 57 \ 19.6 & 1910.0 & \log a = 0.481444 \\ i = 16 \ 36 \ 35.8 & & \end{array}$$

Ephemeride für 12^h M. Z. Berlin.

1910	α 1910.0	δ 1910.0	$\log A$	1910	α 1910.0	δ 1910.0	$\log A$
Okt. 5	0 ^h 57 ^m 18 ^s	+35° 27'.5	0.182	Nov. 6	0 ^h 34 ^m 37 ^s	+31° 28'.3	0.198
7	55 34	35 20.9		8	33 55	31 7.7	
9	53 50	35 12.8		10	33 20	30 46.9	
11	52 7	35 3.3		12	32 52	30 26.1	
13	50 25	34 52.5	0.182	14	32 31	30 5.4	0.211
15	48 45	34 40.5		16	32 18	29 44.8	
17	47 6	34 27.3		18	32 12	29 24.4	
19	45 30	34 13.0		20	32 14	29 4.4	
21	43 57	33 57.7	0.184	22	32 23	28 44.7	0.228
23	42 28	33 41.4		24	32 39	28 25.4	
25	41 4	33 24.3		26	33 2	28 6.5	
27	39 45	33 6.3		28	33 32	27 48.1	
29	38 31	32 47.7	0.189	30	34 9	27 30.3	0.246
31	37 23	32 28.5		Dez. 2	34 53	27 13.0	
Nov. 2	36 21	32 8.8		4	35 44	26 56.4	
4	35 26	31 48.7		6	36 42	26 40.5	
6	0 34 37	+31 28.3	0.198	8	0 37 44	+26 25.5	0.266

Berlin, Kgl. Rechen-Institut, 1910 Okt. 21.

G. Stracke.

Notes on Variables.

Nova 98.1910 Arae.

A new star whose approximate position is RA. 16^h 31^m 4^s Decl. $-52^{\circ} 10' 6''$ (1875) was discovered by Mrs. *Fleming* in the constellation Ara, on Oct. 13, 1910. It appears on 21 photographs taken at Arequipa with the 8-inch Bache and 1-inch Cooke telescopes between April 4, 1910 and Aug. 3, 1910. The magnitude has been estimated as varying from 6^m0 to 10^m0 between these dates. The spectrum is quite faint but shows, on three plates, the bright lines, 5007, *H β* , 4670, *H γ* , *H δ* , *H ϵ* and *H ζ* , one of the plates showing also the bright line *H η* . Apparently this object had passed into a nebulous condition before its spectrum was photographed. The star does not appear on 44 photographs, taken between Aug. 20, 1889 and March 19, 1910, although almost all of

them show stars fainter than the twelfth magnitude, and two plates show stars as faint as the fifteenth magnitude.

The observations of *L. Campbell* show that the variable star R Coronae borealis is now rapidly diminishing in light. It attained its full brightness, 6^m2, in Sept., and almost immediately began to fade. Its magnitude on Sept. 21 was 6^m5, and on Oct. 17, 9^m6. As the variations of this star are very irregular, frequent observations are much to be desired.

There are only two other variables known to be of this type. One of these, SU Tauri, which has been faint recently, has now attained full brightness, 10^m5. The other, RY Sagittarii, is now at normal brightness, 7^m0.

Harvard College Observatory, Cambridge, Mass., 1910 Oct. 18.

Edward C. Pickering.

(140) Siwa. Observations at Taunton, Mass. 1910 Oct. 3 14^h 13^m 5 Gr. m. t. $\alpha = 0^h 59^m 45^s 9$ $\delta = +0^{\circ} 33' 2''$; Oct. 5 13^h 33^m 0 Gr. m. t. $\alpha = 0^h 58^m 3^s 1$ $\delta = +0^{\circ} 22' 1''$ (1910.0). Magnitude 11^m. *J. H. Metcalf*. — Nach einer Mitteilung von Prof. *M. Wolf* liegt dieser Ort außerhalb der Königstuhl-Aufnahme von Okt. 5 (A. N. 186.111). *Kb*.

Inhalt zu Nr. 4450. *R. Prager*. Beobachtungen von kleinen Planeten. 145. — *S. Chevalier*, S. J. Note sur l'occultation de l'étoile BD +19°20'95 par Jupiter observée à Zô-sè le 21 Mai 1908. 153. — *M. Ebell*. Ephemeride des Halleyschen Kometen 1910 c. 157. — *G. Stracke*. Elemente und Ephemeride des Planeten 1910 KU. 159. — *E. C. Pickering*. Notes on Variables. 159. — *J. H. Metcalf*. (140) Siwa. 159.