It will be noticed that of the four hydrogen lines in the spectrum of the meteor, $H\delta$ is the most intense. This is also the case in the spectrum of α Ceti and of many other variable stars of long period. In some variables of long period $H\delta$ and $H\gamma$ are equally intense, while in others $H\gamma$ is the more intense. In some stars of the first type in which the hydrogen lines are bright, like γ Cassiopeiae, the line $H\beta$ is much more intense in the photographic spectrum than any of the other lines, while in the spectra

of stars like P Cygni and η Carinae, $H\delta$, $H\gamma$, and $H\beta$ are nearly equally bright. These results show an important resemblance between meteors and stars having bright lines in their spectra, and may aid in determining the conditions of temperature and pressure in these bodies. Since bright meteors sometimes appear during the November meteoric shower a special effort will be made here to obtain photographs of them, both trails and spectra, on November 13.

Harvard College Observatory, November 8, 1897.

Edward C. Pickering.

New Variable Star in Aquila.

A star not mentioned in the BD. whose place for 1855.0 (possibly wrong to the extent of 1') is

$$R. A. = 19^h 31^m 10^s$$

$$Decl. = +11^\circ 23'$$

has proved to be variable. I noticed it for the first time about the middle of September, but as I did not suspect variability, I did not take a note of the exact date. Its magnitude then was 9.0, BD. +11°39'16 and 3922 being

estimated as 8.8 and 9.1 respectively. On Oct. 20 I found that it had decreased considerably and was surpassed by 3922. Its magnitudes at that date and subsequently are: Oct. 20 9.3; Oct. 25 9.4; Nov. 15 9.9; Nov. 21 10.0. In the estimation of these magnitudes the comparison stars adopted in addition to those mentioned above are BD. +11°39'19 (estimated magnitude, 9.6) and one lying about 4' to the s. e. of the variable (estimated magnitude, 10.1).

21 East Claremont Street, Edinburgh, 1897 Nov. 22.

Thomas D. Anderson.

Entdeckung eines neuen Planeten 1897 DK.

Gelegentlich der Nachforschung nach (388) (1894 BA), habe ich am 18. d. Mts., $-2^m 40^s - 12'6''$ von dem Ephemeridenorte (Veröff. des R. I. Nr. 5) entfernt, einen Planeten aufgefunden, der, was Helligkeit und Bewegung anbetrifft, so wenig zu dem gesuchten passt, dass er wohl zunächst als neu anzusehen sein wird.

Die erhaltenen Beobachtungen sind:

München, 1897 Nov. 19.

1897	M. Z. München	α app.	δ app.
Nov. 18	$12^h 12^m 48^s$	$4^h 27^m 49^s.04$	$+30^\circ 51' 9''.3$
18	13 2 33	27 46.43	30 51 13.9
18	13 46 40	27 44.13	30 51 17.4
19	6 40 16	4 26 56.64	+30 52 35.1

Grösse $12^m 6$. Luft an beiden Abenden etwas neblig.

W. Villiger.

Zusatz. Sofort nach Ankunft der vorstehenden Mittheilung wurde die Entdeckung des Planeten, der die provisorische Bezeichnung 1897 DK erhalten hat, den Mitgliedern der Centralstelle telegraphisch mitgetheilt.

Seither ist von Prof. E. Millosevich folgende Beobachtung eingegangen:

1897 Nov. 22 $8^h 54^m 38^s$ t. m. Roma $\Delta\alpha = -1^m 36^s 23$ $\Delta\delta = -5' 46''.8$ Cfr. 12.2 micr. filare, ingr. 200
 α app. = $4^h 23^m 19^s 54$ (9.595n) δ app. = $+30^\circ 57' 52''.1$ (0.457) Gr. 12.5.

Stella di confronto (1897.0): $\alpha = 4^h 24^m 49^s 84 + 5^s 93$, $\delta = +31^\circ 3' 21''.5 + 17''.4$. AG. Leyda Z. 142, 395.

Eine aus Nov. 18 und 22 gerechnete Kreisbahn lässt mit Sicherheit erkennen, dass der Planet nicht mit (388) identisch ist.

Kr.

Entdeckung eines neuen Planeten 1897 DL.

Planète Charlois 23 Novembre $9^h 45^m 6$ t. m. Nice AR. = $49^\circ 55'$, DP. = $76^\circ 13'$. Mouvement diurne $-13' + 8'$. Gr. 12^m . Perrotin.

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