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**IQ Vel: IMPROVED LIGHT-CURVE PARAMETERS**

The eclipsing binary IQ Vel was discovered in April 1978 at the European Southern Observatory, La Silla, Chile (Kohoutek, 1979). We have continued to observe this star in 1979 and 1982 at the ESO using again the 50 cm telescope and a pulse counting photometer (EMI 6256 A photomultiplier) and we made 174 UBV measurements. Stars in the E-regions (Cousins, 1973; Vogt, et.al., 1981) served as photometric standards.

Our photometry is consistent with that made in 1978: for the comparison star No.1 we found in 1982:  $V=12.404$ ,  $B-V=+0.547$ ,  $U-B=+0.053$  ( $n=23$ ); the brightness of the variable star outside eclipse was:  $V=12.812$ ,  $B-V=+0.294$ ,  $U-B=+0.174$  ( $n=8$ ).

Three primary and two secondary minima were recorded having parameters summarized in Table I (a graphical method

Table I Observed minima

| Min.hel. JD             | Min. | Eclipse depth      |                    |       | Eclipse duration   |
|-------------------------|------|--------------------|--------------------|-------|--------------------|
|                         |      | V                  | B                  | U     |                    |
| 2443940.5489<br>±5 m.e. | I    | 0. <sup>m</sup> 92 | 0. <sup>m</sup> 98 | -     | - */               |
| 4994.7515<br>±5 m.e.    | II   | 0.110              | 0.086              | 0.078 | 0. <sup>d</sup> 24 |
| 4996.7212<br>±2 m.e.    | I    | 0.910              | 0.977              | 0.947 | 0.24               |
| 4998.6885<br>±5 m.e.    | II   | 0.120              | 0.099              | 0.093 | 0.24               |
| 5000.6477<br>±2 m.e.    | I    | 0.920              | 0.981              | 0.952 | 0.24               |

\*/ observed by U. Haug

was used for determining the times of the minima). Combining the five primary minima in the period 1978-82 (for the minima observed in 1978 see Kohoutek, 1979) the following elements of the light-curve could be derived:

$$\text{Min. hel. I} = \text{JD } 2444996.72137 \pm 14 + 3.9262974 \pm 6 \text{ m.e.} \cdot E$$

The secondary minima of 1982 are placed at phase 0.498 and 0.501, respectively, confirming a circular orbit of the binary. The eclipse depth and duration are comparable with those observed in 1978. Also the parameters of the binary system are similar to the preliminary values published earlier. The detailed analysis of the light curve based on all available measurements are planned.

I wish to thank Prof. U. Haug for kindly measuring the minimum in 1979. The observations have been collected at the European Southern Observatory, La Silla, Chile.

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