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**TIMES OF MINIMA OF ECLIPSING BINARIES**

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**Observatory and telescope:**

1m RCC telescope of the Konkoly Observatory; 0.85m Cassegrain telescope of the Xinglong Station of the Beijing Astronomical Observatory.

**Detector:**

1024 × 1024 pixels Photometrics or 1152 × 770 pixels Wright CCD camera on the 1m RCC telescope. These cameras were cooled electronically. For variables observed by the 0.85m telescope see Zhou (2001).

**Method of data reduction:**

IRAF/DAOPHOT<sup>1</sup> package

**Method of minimum determination:**

Kwee & van Woerden (1956)

**Observed star(s):**

| Star name | GCVS type | Coordinates (J2000) |           | Comp. star        | Ephemeris  |            | Source |
|-----------|-----------|---------------------|-----------|-------------------|------------|------------|--------|
|           |           | RA                  | Dec       |                   | E 2400000+ | P [day]    |        |
| IM Aur    | EA        | 05 15 30            | +46 24 22 | GSC 03358-01208   | 38327.7922 | 1.2472906  | 1      |
| TV Cas    | EA        | 00 19 19            | +59 08 21 | GSC 03665-00026   | 44602.4534 | 1.8125956  | 2      |
| AH Cnc    | EW        | 08 51 38            | +11 50 54 | GSC 00814-01981   | 41740.7166 | 0.36044098 | 2      |
| ES Cnc    | EA        | 08 51 21            | +11 53 25 | GSC 00814-01425   | 44643.2535 | 1.0677978  | 3      |
| EV Cnc    | EW        | 08 51 29            | +11 49 31 | GSC 00814-01311   | 51603.2028 | 0.4483     | 4      |
| V861 Her  | EW        | 16 51 13            | +41 17 58 | GSC 03079-00194   | 43684.325  | 0.3446322  | 5      |
| XZ Leo    | EW        | 10 02 34            | +17 02 47 | BD +17°2163a      | 45025.3540 | 0.48773685 | 6      |
| V404 Lyr  | EB        | 19 19 06            | +38 22.0  | GSC 03121-01597   | 35836.448  | 0.7309432  | 7      |
| AH Tau    | EW        | 03 47 12            | +25 07.0  | Mel 22 - HHJ 417  | 47000.2689 | 0.33267164 | 8      |
| EQ Tau    | EW        | 03 48 13            | +22 19 22 | Mel 22 AK I-1-170 | 40213.3250 | 0.34134848 | 2      |

<sup>1</sup>IRAF is distributed by the National Optical Astronomical Observatories, operated by the Association of the Universities for Research in Astronomy, inc., under cooperative agreement with the National Science Foundation

**Source(s) of the ephemeris:**

1. Bartolini & Zoffoli (1986), 2. General Catalogue on Variable Stars, Kholopov et al. (1998), 3. Goranskij et al. (1992), 4. Present paper, 5. Antipin (1996), 6. Niarchos et al. (1996), 7. Csizmadia & Sándor (2001), 8. Pribulla et al. (2001)

**Times of minima:**

| Star name | Time of min.<br>HJD 2400000+ | Error  | Type | Filter     | $O - C$<br>[day] | Rem.             |
|-----------|------------------------------|--------|------|------------|------------------|------------------|
| IM Aur    | 51563.401                    | .0015  | II   | V          | -0.005           | 1m RCC           |
|           | 51568.3863                   | .0004  | II   | V          | -0.0085          | "                |
|           | 51570.2574                   | .0005  | I    | V          | -0.0084          | "                |
|           | 51606.4224                   | .0005  | I    | V          | -0.0148          | "                |
|           | 52247.5284                   | .0003  | I    | V          | -0.0269          | "                |
| TV Cas    | 51925.3255                   | .0004  | I    | V          | -0.0141          | "                |
| AH Cnc    | 51585.1847:                  | .0002  | II   | V          | -0.0762          | 0.85m Cassegrain |
| ES Cnc    | 51602.0961                   | .0003  | I    | V          | +0.0043          | "                |
|           | 51603.1655                   | .0004  | II   | V          | +0.0059          | "                |
| EV Cnc    | 51603.2028                   | .0002  | I    | V          | 0.0000           | "                |
|           | 51604.0883                   | .0003  | I    | V          | -0.0111          | "                |
| V861 Her  | 51690.5276                   | .0002  | I    | mean (VRI) | +0.0520          | 1m RCC           |
|           | 51695.5268                   | .0006  | II   | mean (VRI) | +0.0540          | "                |
| XZ Leo    | 52274.5538                   | .0002  | I    | V          | -0.0330          | "                |
| V404 Lyr  | 52106.51253                  | .00006 | I    | V          | -0.00016         | "                |
| AH Tau    | 52246.33511                  | .00005 | II   | R          | +0.00141         | "                |
| EQ Tau    | 52232.3484                   | .0006  | II   | V          | -0.0244          | "                |
|           | 52232.5192                   | .0003  | I    | V          | -0.0243          | "                |
|           | 52247.3679                   | .0002  | II   | mean(VRI)  | -0.0243          | "                |

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 Niarchos, P. G., Hoffman, M., Duerbeck, H. W., 1994, *A&A*, **292**, 494  
 Pribulla, T., Vanko, M., Parimucha, S., Chochol, D., 2001, *IBVS*, No. 5056  
 Zhou, A. Y., 2001, *IBVS*, No. 5096

**ERRATUM FOR IBVS 5230**

In IBVS 5230 we published several times of minima. One is corrected here. Instead of:

XZ Leo 52274.5538 .0002 I V -0.0330 "

the following should read:

XZ Leo 52274.5955 .0002 I V +0.0054 "

Szilárd Csizmadia