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## CCD LIGHT CURVE AND NEW ELEMENTS OF V1823 Cyg

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MARTIGNONI, M. }\mp@subsup{}{}{1}\mathrm{ ; ACERBI, F. }\mp@subsup{}{}{2
\({ }^{1}\) Via Don Minzoni 26, I20020 Magnago (Milano), Italy, e-mail: maxmartignoni@libero.it
\({ }^{2}\) Via Zoncada 52, I-20073 Codogno (Lodi), Italy, e-mail: acerbifr@tin.it
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| Name of the object: |  |
| :---: | :---: |
| V1823 Cyg = GSC $2679.1740=$ S3854 = CSV $5076=$ NSV 12892 |  |
| Equatorial coordinates: | Equinox: |
| R.A. $=20^{\mathrm{h}} 12^{\mathrm{m}} 6^{\mathrm{s}} 40 \quad$ DEC. $=+3^{\circ} 38^{\prime} 33^{\prime \prime} 6$ | 2000.0 |


| Observatory and telescope: |
| :--- |
| Private station in Busto Arsizio, $0.21-\mathrm{m}$ Newton $(F / 5.0)$ |


| Detector: | DTA Seti 245C CCD Camera |
| :--- | :--- |


| Filter(s): | None |
| :--- | :--- |


| Comparison star(s): | GSC $2679.0670\left(10 .{ }^{\mathrm{m}} 83\right)$ |
| :--- | :--- |


| Check star(s): | GSC $2679.2602(11 . \mathrm{m} 5)$ |
| :--- | :--- |


| Transformed to a standard system: | No |
| :--- | :--- |


| Availability of the data: |
| :--- |
| Through IBVS Web-site |

Type of variability: EW


Figure 1. CCD light curve of V1823 Cyg folded with the elements given in (1)

## Remarks:

V1823 Cyg was discovered as variable star by Hoffmeister (1949) and first observed by Ahnert-Rohlfs et al. (1954) who suspected an EW or RRc type of variation. It was monitored visually by some members of the G.E.O.S. (Wils, 1984): they found a probable RR Lyrae nature and gave also an approximate periodicity. We observed V1823 Cyg during 1999 and 2000 seasons: on the basis of the 409 measures obtained on 12 nights from JD 2451374 to JD 2451841 we were able to determine new type of variability (EW) and derived the following new elements of variation:

$$
\begin{equation*}
\operatorname{Min}(\mathrm{I})=\operatorname{HJD} 2451841.3487+0 \mathrm{~d} .84627 \times E . \tag{1}
\end{equation*}
$$

Five times of minimum light are reported below:

| HJD | $E(1)$ | $O-C(1)$ |
| :---: | ---: | :---: |
| 2451400.4444 | -521.0 | +0.0024 |
| 2451458.4092 | -452.5 | -0.0023 |
| 2451810.4607 | -36.5 | +0.0009 |
| 2451813.4187 | -33.0 | -0.0031 |
| 2451841.3487 | 0.0 | 0.0000 |

## References:

Ahnert-Rohlfs, E., et al., 1954, Veröffentl. der Sternwarte in Sonneberg, Band 2, Heft 2 Hoffmeister, C., 1949, Astronomische Abhandlungen, Ergänzungshefte zu den Astronomische Nachrichten, Band 12, Nr. 1

Wils, P., 1984, Note Circulaire GEOS NC, 427

## ERRATUM FOR IBVS 4997

The declination of V1823 Cyg is, of course, $+34^{\circ} 38^{\prime} 33^{\prime \prime} 6$ instead of the $+3^{\circ} \ldots$ printed in the paper.

The Editors

