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MU Cas

MU Cas = BD + 59<sup>o</sup>22 = S 4672 was discovered by Hoffmeister in 1949.

First elements were found by Wenzel (Veröff. Sternwarte Sonneberg 2.5.354.1956):

Min. = J.D. 2427962.509 + 3<sup>d</sup>861145. E  
 (E); 10<sup>m</sup> - 10<sup>m</sup>3 ph)

Further observations by Romano (Osservat. Ptivato Specola "Ariel" No.17.32.1959), Zonn and Semeniuk (Acta Astron. 9.3.158. 1959) confirm Wenzel's elements.

Lange, (Astr. Circ. 542.1969) observed the star (1969 Aug. 29) and recognized ultrashort light variations (RRs).

Max. = J.D. 2440464.305 + 0<sup>d</sup>.0624312, E

So I evaluated 64 short-exposed plates (Exposure 8 min.) obtained in 4 nights at our observatory. No ultrashort light variations were found.

Further, I examined 114 sky patrol plates of our observatory and 152 plates of Schwerin Observatory.

I also confirm the elements published by Wenzel and the Beta-Lyrae-type.

Observed minima:

| J.D. 24... | E      | O - C                |        |
|------------|--------|----------------------|--------|
| 37082.438  | +2362  | -0 <sup>d</sup> .089 |        |
| 39026.561  | 2865,5 | - 65                 | Min.II |
| 028.429    | 2866   | - 127                |        |
| 057.422    | 2873,5 | - 93                 | Min.II |
| 059.409    | 2874   | - 39                 |        |
| 061.335    | 2874,5 | - 43                 | Min.II |
| 088.259    | 2881,5 | - 145                | Min.II |
| 146.260    | 2896,5 | - 55                 | Min.II |
| 387.563    | 2959   | - 80                 |        |
| 389.476    | 2959,5 | - 97                 | Min.II |
| 40924.285  | 3357   | - 93                 |        |

Particulars will be published in "Mitteilungen der Bruno-H.-Bürgel-Sternwarte Hartha" Heft 5.

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The GCVS 1970 contains the following elements for this variable stars:

Min. = J.D. 2427660.593 + 1.<sup>d</sup>261246 . E (E)

It was my intention to verify these elements. Different periods were published before.

291 sky patrol plates of Sonneberg Observatory were examined. I found 4 Min. I and 8 Min. II.

The observations confirm the above mentioned elements.

Improved elements:

Min. = J.D. 2438411.508 + 1.<sup>d</sup>261253 . E (EB)

9.<sup>m</sup>6 - 10.<sup>m</sup>0 / 9.<sup>m</sup>9 ph

Observed minima:

| J.D. 24... | E       | O - C                |            |
|------------|---------|----------------------|------------|
| 27660.593  | - 8524  | +0. <sup>d</sup> 006 | GCVS 1970  |
| 35924.341  | - 1972  | + 24                 |            |
| 37317.426  | - 867,5 | + 55                 |            |
| 37561.374  | - 674   | + 49                 | Ahnert, P. |
| 37696.377  | - 567   | - 1                  |            |
| 38003.512  | - 323,5 | + 9                  |            |
| 38411.508  | 0       | + 0                  |            |
| 38413.453  | + 1,5   | + 53                 |            |
| 38466.403  | + 43,5  | + 30                 |            |
| 38471.383  | + 47,5  | - 35                 |            |
| 39056.610  | + 511,5 | - 29                 |            |
| 39200.388  | + 625,5 | - 34                 |            |
| 39533.413  | + 889,5 | + 20                 |            |
| 40859.574  | + 1941  | - 26                 |            |

Comparison stars and a minimum in "Mitt.Veränd.Sterne Bd. 2.62 by Ahnert, P.

The light-curve will be published in "Mitteilungen der Bruno-H.-Bürger-Sternwarte Hartha" Heft 5.

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