

BBSAG Bulletin 62

1982 October 1

95th List of Minima of Eclipsing Binaries

The following table lists 3 photoelectric and 341 visual minima obtained mainly during 1982 August and September by the observers:

| | |
|-----|--|
| GB | Guy Boistel, Sautron, France |
| RB | Roland Boninsegna, Dourbes, Belgium |
| ⓇD | Roger Diethelm, Rodersdorf, Switzerland, photoelectric |
| DE | Demetrius P. Elias, Penteli, Greece |
| RG | Robert Germann, Wald, Switzerland |
| MKo | Michael Kohl, Uster, Switzerland |
| ⓈJL | Jean-François Le Borgne, Bagnères, France, photoelectric |
| JL | " " " " , visual |
| RLe | Robert Leyman, Leval - Trahegnies, Belgium |
| KL | Kurt Locher, Grüt, Switzerland |
| PLo | Patrick Louis, Namur, Belgium |
| DM | Dimosthenis Mourikis, Pireas, Greece |
| HP | Hermann Peter, Otelfingen, Switzerland |
| PR | Philippe Ralinourt, Nantes, France |
| TS | Thomas Schildknecht, Evilard, Switzerland |

The O - C values refer to the linear elements of the GCVS 1969, disregarding improved elements in the 1971, 1974, and 1976 supplements to the GCVS. Reductions were made mainly using the tracing paper method.

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(footnotes to page 2 :)

- * GCVS 1969 period erroneous, O - C according to the GCVS 1976: +.012 +.012 +.010 +.009
- ** O - C according to the GCVS amounts to one whole period, O - C according to the elements of BBSAG Bulletin 57, page 6 : -.006 -.006
- *** not contained in the GCVS 1969, O - C according to the GCVS 1976: +.095 +.087 +.092
- **** O - C according to the GCVS exceeds one period, O - C according to the elements of BBSAG Bulletin 38, page 6: +.012 -.004 .000
- ***** not contained in the GCVS 1969, O - C according to the GCVS 1976: +.001 -.005 +.002
- ***** period unknown
- § § § ambiguous minimum orders due to lack of pre-recent observations: As judged from the O - C, § should be secondary and § § primary, but as judged from the estimated bright-

| cur- rent no. | star | minimum or- der | JD hel 244... | O-C | n | ob- ser- ver | cur- rent no. | star | minimum or- der | JD hel 244... | O-C | n | ob- ser- ver |
|---------------------|-----------|-----------------------|------------------|-------|----|--------------------|---------------------|-------------|-----------------------|------------------|-------|----|--------------------|
| 18885 | RT And | I | 5200.372 | -.017 | 8 | RG | 18934 | | II | 5207.429 | **** | 7 | DM |
| 18886 | TT And | I | 5231.598 | -.084 | 7 | KL | 18935 | | II | 5207.433 | **** | 7 | KL |
| 18887 | UU And | I | 5211.504 | +.123 | 7 | KL | 18936 | SS Ari | I | 5224.458 | -.082 | 9 | HP |
| 18888 | WZ And | I | 5194.414 | -.027 | 8 | KL | 18937 | RY Aur | I | 5236.588 | -.004 | 6 | KL |
| 18889 | | I | 5240.323 | -.032 | 7 | KL | 18938 | AG CMi | I | 5238.538 | -.208 | 6 | KL |
| 18890 | XZ And | I | 5195.522 | -.049 | 10 | DM | 18939 | AK CMi | I | 5226.615 | +.023 | 6 | KL |
| 18891 | | I | 5214.520 | -.054 | 6 | KL | 18940 | TY Cap | I | 5193.431 | -.119 | 6 | KL |
| 18892 | | I | 5225.378 | -.054 | 10 | MKo | 18941 | | I | 5193.440 | -.110 | 13 | MKo |
| 18893 | | I | 5240.311 | -.051 | 8 | RG | 18942 | | I | 5203.399 | -.115 | 9 | MKo |
| 18894 | | I | 5240.312 | -.050 | 8 | MKo | 18943 | | I | 5203.404 | -.110 | 8 | HP |
| 18895 | EP And | II | 5193.494 | * | 8 | KL | 18944 | | I | 5223.325 | -.118 | 7 | KL |
| 18896 | | II | 5212.487 | * | 8 | KL | 18945 | RZ Cas | I | 5013.502 | +.006 | 18 | RLe |
| 18897 | | II | 5214.505 | * | 8 | KL | 18946 | | I | 5074.454 | .000 | 18 | RB |
| 18898 | | II | 5240.367 | * | 6 | KL | 18947 | | I | 5129.430 | -.005 | 12 | JL |
| 18899 | EX And | I | 5196.436 | ** | 11 | DE | 18948 | | I | 5160.515 | +.003 | 16 | JL |
| 18901 | | I | 5196.436 | ** | 11 | KL | 18949 | | I | 5166.484 | -.004 | 37 | GB |
| 18902 | GZ And | II | 5207.608 | *** | 10 | KL | 18950 | | I | 5172.469 | +.005 | 11 | JL |
| 18903 | | II | 5208.517 | *** | 5 | KL | 18951 | | I | 5178.440 | .000 | 22 | GB |
| 18904 | | II | 5208.522 | *** | 5 | DM | 18952 | | I | 5178.443 | +.003 | 17 | PR |
| 18905 | AT Aqr | § | 5196.555 | +.037 | 8 | DE | 18953 | | I | 5197.563 | -.001 | 23 | RB |
| 18906 | | § | 5196.562 | +.043 | 8 | KL | 18954 | | I | 5197.575 | +.011 | 21 | PLo |
| 18907 | | § | 5208.428 | +.050 | 7 | KL | 18955 | TV Cas | I | 5202.426 | -.033 | 8 | RLe |
| 18908 | AU Aqr | II | 5193.435 | +.009 | 21 | DE | 18956 | | I | 5202.439 | -.020 | 26 | RB |
| 18909 | AY Aqr | § | 5197.473 | -.002 | 6 | KL | 18957 | AB Cas | I | 5214.476 | +.001 | 6 | KL |
| 18910 | | § | 5198.456 | -.011 | 7 | KL | 18958 | | I | 5225.413 | +.003 | 11 | MKo |
| 18911 | | § | 5207.475 | -.016 | 6 | KL | 18959 | | I | 5225.416 | +.006 | 9 | HP |
| 18912 | CX Aqr | I | 5196.437 | +.013 | 8 | HP | 18960 | IR Cas | I | 5230.423 | -.097 | 9 | HP |
| 18913 | CZ Aqr | I | 5193.606 | +.014 | 6 | KL | 18961 | | I | 5241.316 | -.095 | 9 | HP |
| 18914 | | I | 5194.464 | +.009 | 7 | KL | 18962 | KT Cas | I | 5198.382 | -.060 | 6 | KL |
| 18915 | | I | 5232.428 | +.012 | 6 | KL | 18963 | OR Cas | I | 5214.440 | +.043 | 6 | KL |
| 18916 | | I | 5238.458 | +.003 | 6 | KL | 18964 | | I | 5229.386 | +.043 | 11 | HP |
| 18917 | XZ Aql | I | 5191.415 | +.074 | 9 | HP | 18965 | V 345 Cas | I | 5241.553 | +.009 | 6 | KL |
| 18918 | FK Aql | I | 5224.431 | -.061 | 7 | KL | 18966 | V 355 Cas | I | 5211.593 | -.016 | 6 | KL |
| 18919 | | I | 5240.341 | -.056 | 4 | KL | 18967 | V 389 Cas | I | 5222.390 | +.298 | 7 | KL |
| 18920 | LT Aql | I | 5224.310 | +.030 | 6 | KL | 18968 | | I | 5227.382 | +.300 | 6 | KL |
| 18921 | OO Aql | I | 5193.371 | -.055 | 7 | RG | 18969 | V 523 Cas | I | 5192.342 | ***** | 15 | DE |
| 18922 | V 342 Aql | I | 5215.340 | -.119 | 11 | KL | 18970 | | II | 5192.453 | ***** | 6 | KL |
| 18923 | | I | 5231.283 | -.120 | 7 | KL | 18971 | | II | 5214.427 | ***** | 6 | KL |
| 18924 | V 343 Aql | I | 5192.402 | -.010 | 7 | HP | 18972 | SU Cep | I | 5223.353 | +.014 | 7 | KL |
| 18925 | | I | 5203.462 | -.018 | 8 | HP | 18973 | BR Cep | I | 5197.395 | -.167 | 7 | KL |
| 18926 | | I | 5216.382 | -.010 | 11 | HP | 18974 | | I | 5238.588 | -.155 | 9 | KL |
| 18927 | | I | 5227.442 | -.017 | 11 | HP | 18975 | CM Cep | I | 5198.466 | -.126 | 6 | KL |
| 18928 | | I | 5240.348 | -.023 | 8 | RG | 18976 | | I | 5224.489 | -.129 | 6 | KL |
| 18929 | | I | 5240.359 | -.012 | 9 | MKo | 18977 | EG Cep | I | 5200.406 | +.026 | 7 | HP |
| 18930 | V 346 Aql | I | 5216.450 | -.017 | 7 | HP | 18978 | | I | 5212.386 | +.028 | 10 | HP |
| 18931 | | I | 5225.301 | -.017 | 7 | HP | 18979 | NSV 817 Cep | | 5232.473 | ***** | 7 | KL |
| 18932 | V 760 Aql | I | 5241.338 | +.024 | 6 | KL | 18980 | | | 5238.633 | ***** | 8 | KL |
| 18933 | V 803 Aql | II | 5197.435 | **** | 8 | KL | 18981 | TW Cet | I | 5211.566 | -.037 | 6 | KL |

* * * * * § § § see preceding page

| cur- rent no. | star | minimum or- der | JD hel 244... | O-C | n | ob- ser- ver | cur- rent no. | star | minimum or- der | JD hel 244... | O-C | n | ob- ser- ver |
|---------------------|-----------|-----------------------|------------------|-------|----|--------------------|---------------------|--------------|-----------------------|------------------|-------|----|--------------------|
| 18982 | | II | 5226.617 | -.036 | | 7 KL | 19025 | V 687 Cyg | I | 5186.433 | +.007 | 10 | HP |
| 18983 | | I | 5231.533 | -.032 | | 6 KL | 19026 | | I | 5227.406 | +.007 | 9 | HP |
| 18984 | VY Cet | I | 5211.624 | * | | 7 KL | 19027 | V 728 Cyg | I | 5183.425 | +.086 | 12 | HP |
| 18985 | | I | 5226.620 | * | | 8 KL | 19028 | | I | 5216.391 | +.090 | 13 | HP |
| 18986 | | II | 5231.553 | * | | 6 KL | 19029 | V1034 Cyg | I | 5231.310 | -.012 | 5 | HP |
| 18987 | AA Cet | II | 5214.627 | ** | | 7 KL | 19030 | LD 23 Cyg | | 5222.332 | **** | 6 | KL |
| 18988 | | I | 5224.554 | ** | | 6 KL | 19031 | | | 5223.332 | **** | 5 | KL |
| 18989 | | I | 5231.527 | ** | | 7 KL | 19032 | | | 5224.330 | **** | 12 | KL |
| 18990 | SW Cyg | I | 5192.468 | +.249 | | 6 KL | 19033 | | | 5225.332 | **** | 8 | KL |
| 18991 | | I | 5215.338 | +.254 | | 7 KL | 19034 | | | 5227.328 | **** | 7 | KL |
| 18992 | | I | 5224.472 | +.242 | 16 | HP | 19035 | | | 5228.322 | **** | 7 | KL |
| 18993 | | I | 5224.477 | +.248 | | 7 KL | 19036 | | | 5229.325 | **** | 4 | KL |
| 18994 | UW Cyg | I | 5201.494 | +.019 | 10 | HP | 19037 | | | 5231.309 | **** | 6 | KL |
| 18995 | | I | 5232.550 | +.018 | | 6 KL | 19038 | | | 5232.303 | **** | 8 | KL |
| 18996 | WW Cyg | I | 5228.466 | +.035 | 11 | HP | 19039 | SVS 2194 Cyg | I | 5241.560 | ***** | 14 | DE |
| 18997 | WZ Cyg | I | 5212.489 | +.023 | | 6 KL | 19040 | | I | 5241.570 | ***** | 13 | KL |
| 18998 | | I | 5222.426 | +.023 | | 6 KL | 19041 | W Del | I | 5241.366 | +.156 | 15 | HP |
| 18999 | | I | 5229.421 | +.005 | | 7 KL | 19042 | TT Del | I | 5232.417 | +.069 | 7 | HP |
| 19000 | | I | 5232.364 | +.026 | | 7 HP | 19043 | | I | 5232.423 | +.076 | 7 | KL |
| 19001 | | I | 5242.297 | +.022 | | 6 KL | 19044 | TY Del | I | 5196.379 | +.016 | 6 | RG |
| 19002 | ZZ Cyg | I | 5191.460 | -.032 | | 7 HP | 19045 | | I | 5196.384 | +.020 | 7 | HP |
| 19003 | | I | 5203.408 | -.027 | | 8 HP | 19046 | | I | 5227.365 | +.032 | 9 | HP |
| 19004 | | I | 5215.341 | -.038 | | 6 KL | 19047 | FZ Del | I | 5193.448 | -.011 | 9 | MKo |
| 19005 | | I | 5225.397 | -.040 | | 9 HP | 19048 | | I | 5193.451 | -.009 | 9 | HP |
| 19006 | BR Cyg | I | 5193.357 | +.014 | | 7 RG | 19049 | | I | 5226.341 | -.012 | 8 | MKo |
| 19007 | | I | 5205.347 | +.011 | | 7 RG | 19050 | Z Dra | I | 5222.346 | +.022 | 7 | KL |
| 19008 | | I | 5217.325 | -.004 | | 6 KL | 19051 | RR Dra | I | 5222.364 | +.196 | 12 | RG |
| 19009 | | I | 5225.337 | +.012 | | 7 RG | 19052 | | I | 5222.370 | +.202 | 8 | KL |
| 19010 | | I | 5225.338 | +.014 | | 8 MKo | 19053 | | I | 5236.534 | +.209 | 6 | KL |
| 19011 | | I | 5229.331 | +.009 | | 6 KL | 19054 | RZ Dra | I | 5183.454 | -.023 | 10 | HP |
| 19012 | | I | 5229.338 | +.016 | 11 | HP | 19055 | | I | 5193.365 | -.029 | 6 | RG |
| 19013 | | I | 5241.321 | +.006 | | 7 RG | 19056 | | I | 5225.314 | -.031 | 8 | RG |
| 19014 | CG Cyg | I | 5225.318 | -.024 | | 7 RG | 19057 | | I | 5231.366 | -.038 | 9 | RG |
| 19015 | HK Cyg | I | 5224.454 | *** | | 7 KL | 19058 | | I | 5231.381 | -.023 | 11 | HP |
| 19016 | V 366 Cyg | II | 5211.363 | -.029 | 10 | RD | 19059 | | I | 5241.290 | -.030 | 8 | RG |
| 19017 | V 370 Cyg | I | 5228.324 | +.057 | | 6 KL | 19060 | SX Dra | I | 5222.418 | +.296 | 6 | KL |
| 19018 | | I | 5231.415 | +.049 | | 6 KL | 19061 | TZ Dra | I | 5223.343 | -.011 | 8 | RG |
| 19019 | V 387 Cyg | I | 5201.490 | +.075 | | 9 HP | 19062 | UZ Dra | I | 5216.422 | +.003 | 10 | HP |
| 19020 | | I | 5228.393 | +.063 | 12 | HP | 19063 | AI Dra | I | 5129.410 | +.008 | 12 | JL |
| 19021 | V 456 Cyg | I | 5230.394 | +.015 | 11 | HP | 19064 | | I | 5160.584 | +.012 | 12 | JL |
| 19022 | | I | 5231.298 | +.028 | | 7 RG | 19065 | | I | 5202.529 | -.002 | 15 | RB |
| 19023 | V 548 Cyg | I | 5207.477 | -.084 | 10 | HP | 19066 | TZ Eri | I | 5236.642 | -.083 | 7 | KL |
| 19024 | | I | 5227.338 | -.081 | | 9 HP | | | | | | | |

* GCVS 1969 period erroneous, O - C according to the GCVS 1976: -.004
-.004 -.012

** not contained in the GCVS 1969, O - C according to the GCVS 1974 :
-.029 -.023 -.019

*** no period given by the GCVS 1969, O - C according to the GCVS 1976 :
-.035

**** see page 5 of this issue

***** not contained in the GCVS, O - C according to MyraboB's elements,

| cur- rent no. | star | minimum or- der | JD hel 244... | O-C | n | ob- ser- ver | cur- rent no. | star | minimum or- der | JD hel 244... | O-C | n | ob- ser- ver |
|---------------------|--------------------|-----------------------|------------------|--------|----|--------------------|---------------------|--------------|-----------------------|------------------|--------|----|--------------------|
| 19067 | AM Eri | I | 5225.593 | * | 6 | KL | 19109 | | I | 5212.420 | +0.027 | 12 | HP |
| 19068 | RT For <i>1969</i> | | 5238.571 | ** | 7 | KL | 19110 | | I | 5231.334 | +0.028 | 8 | RG |
| 19069 | RW Gem | I | 5232.596 | +0.001 | 7 | KL | 19111 | | I | 5231.335 | +0.029 | 11 | HP |
| 19070 | SZ Her | I | 5196.415 | +0.037 | 7 | HP | 19112 | EW Lyr | I | 5211.533 | +0.082 | 6 | KL |
| 19071 | | I | 5214.412 | +0.035 | 6 | KL | 19113 | | I | 5217.380 | +0.081 | 7 | KL |
| 19072 | | I | 5228.319 | +0.034 | 7 | RG | 19114 | FL Lyr | I | 5200.357 | -0.002 | 7 | RG |
| 19073 | | I | 5228.319 | +0.035 | 8 | HP | 19115 | | I | 5200.374 | +0.015 | 9 | HP |
| 19074 | CC Her | I | 5196.351 | +0.102 | 6 | RG | 19116 | GZ Lyr | I | 5241.468 | *** | 7 | KL |
| 19075 | | I | 5196.352 | +0.102 | 9 | HP | 19117 | V 449 Oph | I | 5193.415 | +0.062 | 6 | KL |
| 19076 | | I | 5222.352 | +0.092 | 7 | RG | 19118 | V 501 Oph | I | 5196.400 | -0.007 | 7 | HP |
| 19077 | DP Her | I | 5194.417 | -0.187 | 6 | KL | 19119 | | I | 5227.379 | -0.003 | 9 | HP |
| 19078 | ES Her | I | 5194.369 | -0.139 | 6 | KL | 19120 | | I | 5228.345 | -0.004 | 8 | RG |
| 19079 | GL Her | I | 5193.371 | +0.089 | 6 | KL | 19121 | V 508 Oph II | 5193.397 | +0.015 | 6 | RG | |
| 19080 | | I | 5200.397 | +0.080 | 8 | RG | 19122 | | I | 5200.461 | +0.010 | 7 | HP |
| 19081 | | I | 5200.408 | +0.091 | 13 | HP | 19123 | | I | 5216.326 | +0.015 | 9 | RG |
| 19082 | | I | 5207.444 | +0.092 | 13 | HP | 19124 | | I | 5217.360 | +0.014 | 8 | KL |
| 19083 | MT Her | I | 5231.312 | +0.031 | 7 | RG | 19125 | | II | 5222.349 | +0.004 | 8 | RG |
| 19084 | MX Her | I | 5191.434 | -0.200 | 9 | HP | 19126 | | I | 5228.391 | +0.012 | 7 | HP |
| 19085 | | I | 5224.305 | -0.196 | 7 | RG | 19127 | | II | 5231.317 | +0.007 | 7 | RG |
| 19086 | | I | 5231.328 | -0.216 | 7 | KL | 19128 | V 511 Oph | I | 5225.358 | +0.079 | 6 | KL |
| 19087 | | I | 5238.353 | -0.234 | 8 | RG | 19129 | V 586 Oph | I | 5241.317 | +0.006 | 6 | KL |
| 19088 | PW Her | I | 5223.342 | -0.083 | 8 | RG | 19130 | V 735 Oph | I | 5183.433 | -0.183 | 12 | HP |
| 19089 | V 338 Her | I | 5191.424 | +0.112 | 8 | HP | 19131 | | I | 5228.294 | -0.196 | 6 | RG |
| 19090 | V 359 Her | I | 5183.362 | -0.111 | 6 | HP | 19132 | V 752 Oph | I | 5241.313 | **** | 7 | KL |
| 19091 | | I | 5241.303 | -0.111 | 7 | RG | 19133 | V 1010 Oph | I | 5133.345 | -0.104 | | GS |
| 19092 | TW Lac | I | 5224.409 | -0.129 | 12 | HP | 19134 | EQ Ori | I | 5225.607 | -0.081 | 7 | KL |
| 19093 | VX Lac | I | 5200.445 | -0.078 | 8 | HP | 19135 | FL Ori | I | 5198.570 | +0.089 | 8 | KL |
| 19094 | | I | 5214.412 | -0.080 | 6 | KL | 19136 | OS Ori | I | 5238.577 | -0.032 | 7 | KL |
| 19095 | | I | 5227.307 | -0.079 | 9 | HP | 19137 | TY Peg | I | 5201.434 | -0.030 | 10 | HP |
| 19096 | | I | 5227.307 | -0.079 | 6 | KL | 19138 | | I | 5232.359 | -0.027 | 9 | HP |
| 19097 | AU Lac | I | 5241.669 | -0.078 | 7 | KL | 19139 | | I | 5232.360 | -0.027 | 6 | KL |
| 19098 | CM Lac | I | 5207.476 | +0.004 | 10 | HP | 19140 | UX Peg | I | 5232.326 | -0.024 | 7 | HP |
| 19099 | DG Lac | I | 5193.419 | +0.264 | 9 | HP | 19141 | AT Peg | I | 5200.371 | -0.122 | 7 | HP |
| 19100 | | I | 5225.311 | +0.267 | 7 | RG | 19142 | | I | 5200.373 | -0.120 | 7 | RG |
| 19101 | TY Lib | I | 5198.314 | +0.033 | 6 | KL | 19143 | | I | 5216.414 | -0.124 | 12 | HP |
| 19102 | TT Lyr | I | 5191.412 | +0.032 | 7 | HP | 19144 | BN Peg | I | 5196.437 | -0.281 | 7 | HP |
| 19103 | | I | 5212.390 | +0.035 | 13 | HP | 19145 | | I | 5201.436 | -0.276 | 8 | HP |
| 19104 | TZ Lyr | I | 5196.363 | +0.035 | 14 | MKo | 19146 | | I | 5231.391 | -0.279 | 8 | RG |
| 19105 | | I | 5207.476 | +0.043 | 9 | HP | 19147 | | I | 5231.392 | -0.278 | 9 | HP |
| 19106 | | I | 5224.393 | +0.038 | 9 | HP | 19148 | | I | 5241.378 | -0.279 | 9 | HP |
| 19107 | | I | 5241.319 | +0.041 | 7 | HP | 19149 | BY Peg | II | 5224.438 | +0.088 | 8 | KL |
| 19108 | UZ Lyr | I | 5193.514 | +0.033 | 14 | MKo | 19150 | | I | 5231.450 | +0.090 | 6 | KL |
| | | | | | | | 19151 | | II | 5236.415 | +0.097 | 6 | KL |

* O - C according to the GCVS amounts to several entire periods, according to the elements of BBSAG Bulletin 50, page 5: -0.026

** period unknown

*** no period given by the GCVS 1969, O - C according to the GCVS 1976: -0.023

**** no period given by the GCVS, O - C according to the elements in BBSAG Bulletin 27, page 4, footnote 1: +0.081

| cur- rent no. | star | minimum or- JD hel der 244... | 0-C n | ob- ser- ver | cur- rent no. | star | minimum or- JD hel der 244... | 0-C n | ob- ser- ver |
|---------------------|-----------|-------------------------------------|-------|--------------------|---------------------|--------|-------------------------------------|-------|--------------------|
| 19152 | | II 5238.463 | +.093 | 6 KL | 19190 | AO Ser | I 5212.369 | +.006 | 9 HP |
| 19153 | CW Peg | I 5208.463 | -.262 | 11 KL | 19191 | | I 5227.316 | +.005 | 10 HP |
| 19154 | | I 5208.465 | -.260 | 10 DM | 19192 | AU Ser | II 5200.377 | ** | 6 RG |
| 19155 | DI Peg | I 5201.472 | -.020 | 9 HF | 19193 | | II 5200.388 | ** | 8 HP |
| 19156 | DK Peg | I 5238.362 | +.033 | 10 RG | 19194 | | II 5212.373 | ** | 6 HP |
| 19157 | DO Peg | I 5211.510 | +.180 | 6 KL | 19195 | | II 5231.305 | ** | 8 HP |
| 19158 | Z Per | I 5231.364 | +.030 | 8 KL | 19196 | LX Ser | I 5208.286 | *** | 5 KL |
| 19159 | RT Per | I 5212.454 | -.075 | 11 DM | 19197 | AC Tau | I 5211.575 | +.064 | 6 KL |
| 19160 | | I 5212.457 | -.072 | 7 KL | 19198 | BN Tau | I 5236.584 | +.053 | 6 KL |
| 19161 | RW Per | I 5227.584 | +.435 | 6 KL | 19199 | ES Tau | I 5225.501 | **** | 7 KL |
| 19162 | ST Per | I 5193.482 | -.032 | 8 KL | 19200 | V Tri | I 5203.468 | +.024 | 7 HP |
| 19163 | | I 5193.484 | -.031 | 11 MKo | 19201 | | I 5240.329 | +.018 | 7 RG |
| 19164 | XZ Per | I 5231.481 | +.017 | 7 KL | 19202 | X Tri | I 5207.476 | -.042 | 9 HP |
| 19165 | IU Per | I 5240.339 | +.064 | 7 KL | 19203 | RV Tri | I 5194.476 | -.031 | 6 KL |
| 19166 | | I 5240.345 | +.070 | 7 MKo | 19204 | RW Tri | I 5197.527 | -.001 | 7 KL |
| 19167 | | I 5240.360 | +.085 | 6 RG | 19205 | | I 5207.496 | -.003 | 9 KL |
| 19168 | KW Per | I 5192.522 | +.046 | 7 KL | 19206 | Z Vul | I 5186.382 | +.024 | 10 HP |
| 19169 | | I 5193.456 | +.049 | 6 KL | 19207 | RS Vul | I 5211.379 | -.006 | 14 (RD) |
| 19170 | | I 5231.629 | +.040 | 6 KL | 19208 | AW Vul | I 5193.529 | -.022 | 8 MKo |
| 19171 | QU Per | I 5196.506 | * | 8 DE | 19209 | | I 5193.532 | -.018 | 8 KL |
| 19172 | | I 5196.519 | * | 8 KL | 19210 | | I 5194.337 | -.020 | 6 KL |
| 19173 | | I 5232.550 | * | 7 KL | 19211 | | I 5227.400 | -.022 | 8 HP |
| 19174 | Y Psc | I 5232.316 | +.175 | 6 KL | 19212 | BE Vul | I 5183.466 | +.008 | 12 HP |
| 19175 | UV Psc | I 5241.415 | +.022 | 8 HP | 19213 | | I 5194.345 | +.023 | 9 HP |
| 19176 | RW PscA | I 5236.429 | -.052 | 6 KL | 19214 | | I 5225.382 | +.019 | 10 MKo |
| 19177 | UZ Sge | I 5225.497 | +.047 | 6 KL | 19215 | BO Vul | I 5191.448 | -.087 | 8 HP |
| 19178 | | I 5225.499 | +.049 | 5 TS | 19216 | | I 5193.391 | -.090 | 8 HP |
| 19179 | V 505 Sgr | I 5172.502 | -.026 | 27 (JL) | 19217 | | I 5193.394 | -.088 | 9 KL |
| 19180 | | I 5172.504 | -.023 | 15 JL | 19218 | | I 5224.528 | -.088 | 7 HP |
| 19181 | | I 5178.425 | -.017 | 16 FR | 19219 | | I 5228.418 | -.089 | 12 HP |
| 19182 | | I 5191.434 | -.019 | 10 HP | 19220 | | I 5230.364 | -.089 | 7 KL |
| 19183 | RT Sct | I 5238.543 | -.153 | 6 KL | 19221 | | I 5230.365 | -.088 | 11 HP |
| 19184 | RS Sct | I 5196.397 | +.017 | 7 HP | 19222 | | I 5232.311 | -.088 | 7 KL |
| 19185 | | I 5200.377 | +.011 | 7 RG | 19223 | BU Vul | I 5196.341 | +.016 | 7 RG |
| 19186 | | I 5216.325 | +.017 | 7 RG | 19224 | | I 5225.342 | -.002 | 6 RG |
| 19187 | | I 5216.329 | +.021 | 7 KL | 19225 | | I 5229.332 | +.005 | 7 HP |
| 19188 | | I 5222.304 | +.019 | 6 RG | 19226 | | I 5241.294 | +.018 | 7 RG |
| 19189 | | I 5222.313 | +.027 | 6 KL | 19227 | CD Vul | I 5224.339 | +.019 | 7 HP |
| | | | | | 19228 | | I 5228.437 | -.024 | 6 HP |

* ** *** **** see page 7

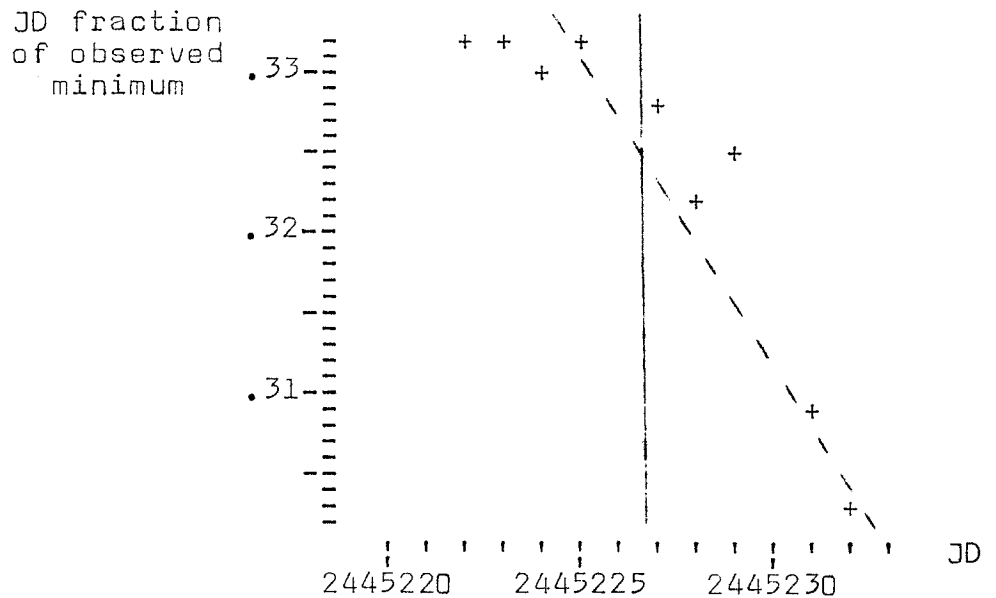
L D 2 3 Cygni :

The Period - Rather not an Eclipsing Variable

This star has recently been reported by Dahlmark (1) to have been discovered, to be eclipsing and to have a period of $27.001/n$. My visual survey during 9 September nights 1982 has yielded the 9 minima on page 3 of this issue and the quick insight that n must be 27, 54 or 81.

Figure 63 (page 7) plots the JD fractions of these minima against the integer JD to show that, judged from them alone, the 1-, 2- or 3-fold pe-

Figure 63



(continued from page 5 :)

riod would be somewhat less than a day (dashed line). However, I neglect this, (traced line) and take the JD fraction directly as a measure of phase in Figure 64 (page 6), since Dahlmarm (1) gives his multiple period to 3 digits, and the dashed line solution in Figure 63 would contradict the hinder 2 of them.

Now the lightcurve in Figure 64 resembles much more the one of a pulsating than of an eclipsing star :

In favour of an eclipsing hypothesis is only the very small but distinct decrease in brightness just before every minimum. If eclipsing, the star would have a CX-Ser-like peculiarity (2).

If pulsating, as the overall shape of the curve suggests, the late decrease just before the minimum can be explained by a FT-Sct-like hump (3).

These problems cannot be solved visually, nor by observations at one single longitude.

K. Locher

References :

- (1) L. Dahlmarm, IBVS 2157 (1982)
- (2) В.П. Цесевич, Переменные Звёзды 20, p. 332, fig. 2, 1977
- (3) В.П. Цесевич, Исследование Переменных Звёзд, p. 52, fig. 18 (Киев 1976)

(footnotes to page 5 :)

- * no period given by the GCVS, O - C according to the elements of BBSAG Bulletin 42, page 3: -.250 -.236 -.225
- ** GCVS 1969 elements too inaccurate for reasonable reduction, O - C according to the GCVS 1974: -.010 .000 +.004 -.002
- *** not contained in the GCVS, O - C according to the elements of Africano, Horne & Margon, IAUC 3466: +.015
- **** GCVS period erroneous, O - C according to the elements of BBSAG Bulletin 58, page 5: -.002