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PHOTOGRAPHIC OBSERVATIONS OF THE MAGNETIC BINARY SYSTEM PG 1550 +191

The AM Herculis-type magnetic binary star PG 1550 +191 has been discovered by S. Liebert et al. (1982, Ap.J. 256, 594) on the Palomar Green Survey (PG) of blue stellar objects at high galactic latitude.

The star shows polarization and light variations with a period of $0^d.078873$ (Liebert et al. 1982). Its mean infrared color index is similar to that of AM Herculis high state.

The star was observed on seventeen plates obtained at Asiago with the 40/50/100 cm Schmidt during the period August 1972 - May 1981. The time of exposure was five minutes on the average.

We have determined the brightness of the variable during the period covered by the present observations. The derived magnitudes are reported in Table I.

Table I

| JD 244... | $m_{pg}$ | JD 244... | $m_{pg}$ |
|---|---|---|---|
| 1534.3921 | 15.7 | 3284.5483 | 14.7 |
| 1572.3143 | 15.1 | 3306.5527 | 15.5 |
| 2272.3643 | 14.9 | 3664.5882 | 15.1 |
| 2519.5961 | 15.0 | 3986.5555 | 15.4 |
| 2549.5649 | 14.8 | 4017.5135 | 15.6 |
| 2606.4839 | 15.0 | 4372.5392 | 15.2 |
| 2904.6017 | 15.0 | 4402.4581 | 15.6 |
| 3227.6416 | 15.0 | 4402.4651 | 15.1 |
| | | 4753.4981 | 15.0 |

Although the observations were not sufficient to improve the period given by Liebert et al., they showed that the star was always in its high state.

The variation of brightness from 14.7 to 15.7 was due to eclipses.

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Erratum: In IBVS No. 2161 (1982 June 15), the new variable star is not GR 306 but GR 310.