

## GSC 2050-00745: Four Years of Observations

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|-----------------------------|---|
| <b>Star Name:</b>           | GSC 2050-00745  |
| <b>Coordinates (J2000):</b> | 16 18 34.35, +27 28 13.3  |
| <b>Variability type:</b>    | RRAB, Blazhko effect; <b>Limits, System:</b> 0.58 - 1.92 (delta V); |
| <b>Period:</b>              | 0.508648 d; <b>Epoch(max):</b> JD 2453558.37                        |

### Remarks:

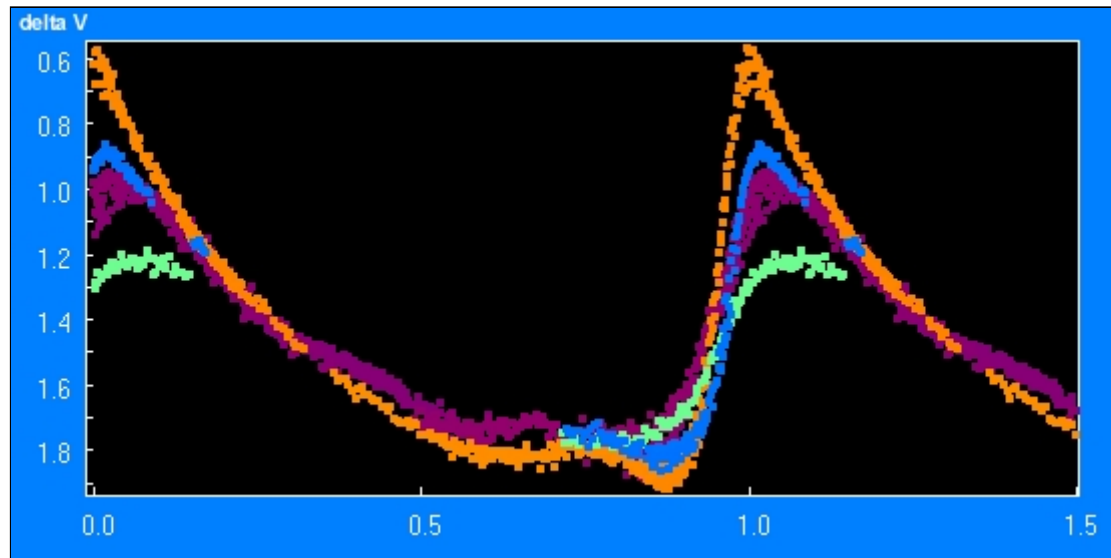
Our observations of GSC 2050-00745, an RRAB type variable star with strong Blazhko effect (Antipin et al., 2005), have been continued. Our CCD photometry was carried out at the Crimean Laboratory, Sternberg Astronomical Institute, using a Pictor 416XTE camera at the 50-cm reflector in 2006 and a SBIG ST2000XM CCD camera at the 60-cm reflector in 2007. 127 V-band brightness measurements were obtained on two nights in 2006: July 25 - 26, JD2453942-43; and 218 measurements, on three nights in 2007: July 11 - 16, JD2454293-98. The images were dark subtracted, flat-fielded and analyzed with the aperture photometry package developed by V.P. Goranskij. GSC 2050-00597 was used for comparison. The phased light curve is given in the Figure. The V-band amplitude of pulsations changes from 0.57m in 2006 to 1.34m in 2005. Unfortunately, the Blazhko period still remains unknown.

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### References:

Antipin, S.V., Sokolovsky, K.V., Lebedev, A.A., 2005, IBVS, No. 5654

### Light Curve



The phased light curves for four seasons of observations: 2004 (July 5 - 28) - violet; 2005 (June 30 - July 20) - orange; 2006 (July 25 - 26) - green; 2007 (July 11 - 16) - blue.

**Data Source**

1. [gsc0205000745.dat](#)