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**GSC 0867.0545: A NEW RR LYRAE VARIABLE**

(BAV MITTEILUNGEN NO. 136)

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<b>Name of the object:</b>	
GSC 0867.0545	
<b>Equatorial coordinates:</b>	<b>Equinox:</b>
R.A.= 11 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> 5    DEC.= 11°52'08''	2000
<b>Observatory and telescope:</b>	
W. Moschner: Private observatory, 32-cm Ritchey–Chrétien telescope; K. Bernhard: Private observatory, 20-cm Schmidt–Cassegrain telescope	
<b>Detector:</b>	W. Moschner: SBIG ST9 camera; K. Bernhard: Starlight Xpress SX camera
<b>Filter(s):</b>	None
<b>Comparison star(s):</b>	GSC 0867.0034, $V \approx 12^m.8$
<b>Check star(s):</b>	GSC 0867.0289
<b>Transformed to a standard system:</b>	No
<b>Availability of the data:</b>	
Upon request	
<b>Type of variability:</b>	RRab

**Remarks:**

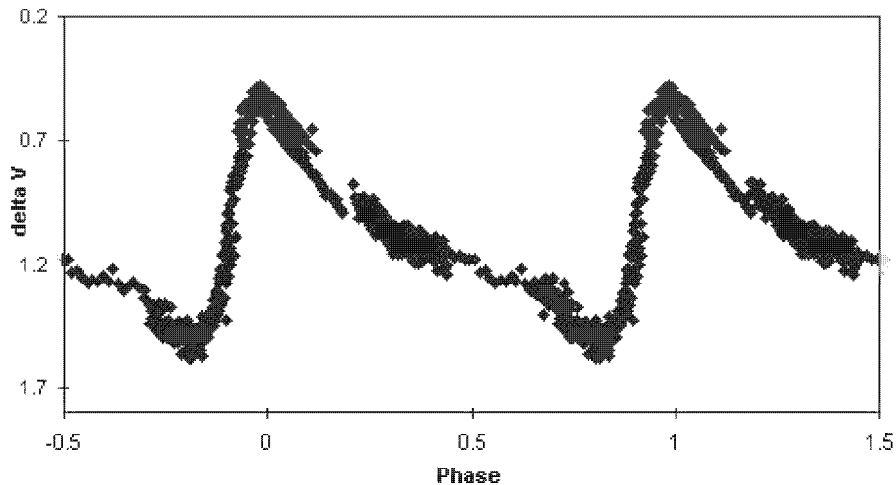
The variability of GSC 0867.0545 has been found as part of a programme to discover and classify new variables using CCD observations of selected fields on the edge of the northern Milky Way (eg. Bernhard & Lloyd 2000). Additional observations were performed on 5 nights between January and February 2001 (W. Moschner, P. Frank) and 7 nights between March and May 2001 (K. Bernhard). This star has previously been referred to as Brh V44 (Bernhard 2000, 2001, Moschner 2001). The ephemeris was calculated using the “Phase Dispersion Minimization” method:

$$\text{Max} = \text{HJD } 2451956.489 + 0^{\text{d}}67939 \times E. \quad (1)$$

$\pm 5 \qquad \pm 6$

**Acknowledgements:**

This research made use of the SIMBAD data base, operated by the CDS at Strasbourg, France.



**Figure 1.** Differential light curve of GSC 0867.0545

## References:

- Bernhard, K., 2000, *vsnet-newvar*, No. 427,  
<http://www.kusastro.kyoto-u.ac.jp/vsnet/Mail/vsnet-newvar/msg00427.html>  
 Bernhard, K., 2001, <http://mitglied.tripod.de/KlausBernhard/index.html>  
 Bernhard, K., Lloyd. C., 2000, *IBVS*, No. 4920  
 Moschner, W., 2001, <http://www.var-mo.de>