

## New CCD Minima of DM Del

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<b>Star Name:</b>	DM Del, BD+13 4478, SAO 106356, PPM 138789		
<b>Coordinates (J2000):</b>	20 39 37.01, +14 25 43.1		
<b>Variability type:</b>	EB;	<b>Limits, System:</b> 8.58 - 9.11 ;	<b>Spectrum:</b> A2V
<b>Period:</b>	0.8446725 d;	<b>Epoch(min):</b>	JD 2454062.1749

### Remarks:

I present my CCD photometry of DM Del, an eclipsing binary with variable orbital period. The data were obtained in November - December, 2006 at my small private observatory with a CCD camera SBIG ST-7XME1 and photo lens Rubinar 5.6/500 (D=89.29 mm, F=475 mm) without filter. A total of 785 images with 20-second exposures were obtained on 10 nights (November 2 - December 9, JD2454042 - 2454079, see attached data file).

Basic reduction of images (for dark current, flat field, and bias) was carried out with the CCDSoft; the astrometric solution and photometry, with the MaxIm DL software. The comparison and check stars were: comp = SAO 106351 (8.82 mag) and check = GSC 1100-00646 (9.69 mag).

Three epochs of the primary minimum were determined based on our photometry using the Minima v2.3 software by Dr. Bob Nelson:

2006 November 22: 2454062.1749;

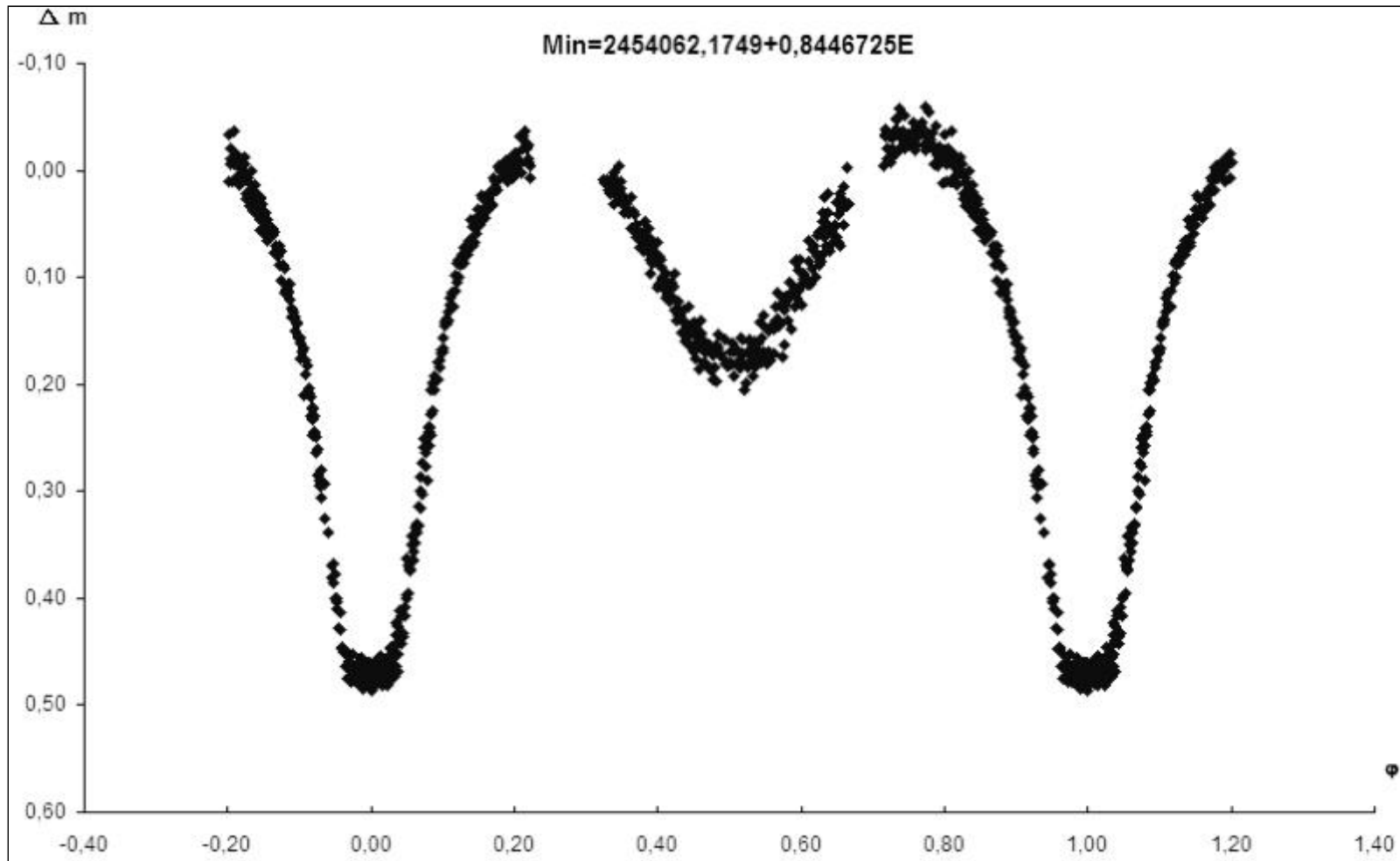
2006 November 28: 2454068.0876;

2006 December 09: 2454079.0684.

I used the new epoch of minimum (HJD2454062.1749) and the period taken from the Brno database of times of minima and maxima (0.8446725 days, see <http://var.astro.cz/ocgate/>) to plot the phased light curve.

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## Light Curve



The phased light curve of DM Del

### Data Source

1. [dm\\_del.dat](#)