

Variable Star Bulletin

New light elements for four Eclipsing Binaries, CW Ori, OT Lac, CR Per and V610 Cyg

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We present new light elements of four eclipsing binaries (CW Ori, OT Lac, CR Per, V610 Cyg). These elements are calculated from VSOLJ and archival observations (see list below) by K.Kasai. We used the phase dispersion minimization (PDM) method (Stellingwerf, 1978) for period analysis. The new elements are as follows:

CW Ori

$\text{minI} = 2456713.26180 + 1.70993 \times E$ (AAVSO VSX, K.Kasai, 2014)

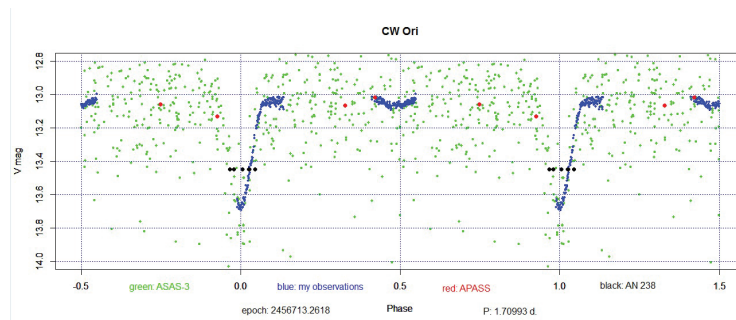


Figure 1: CW Ori light curve

OT Lac

$\text{minI} = 2456928.04920 + 5.14992 \times E$ (AAVSO VSX, K.Kasai, 2014)

$\text{minII} = 2456935.47080 + 5.14992 \times E$ (AAVSO VSX, K.Kasai, 2014)

CR Per

$\text{minI} = 2457106.3762 + 8.809700 \times E$ (AAVSO VSX, K.Kasai, 2015)

$\text{minII} = 2457094.4311 + 8.809700 \times E$ (AAVSO VSX, K.Kasai, 2015)

V610 Cyg

$\text{minI} = 2457254.73400 + 2.996015 \times E$ (AAVSO VSX, K.Kasai, 2015)

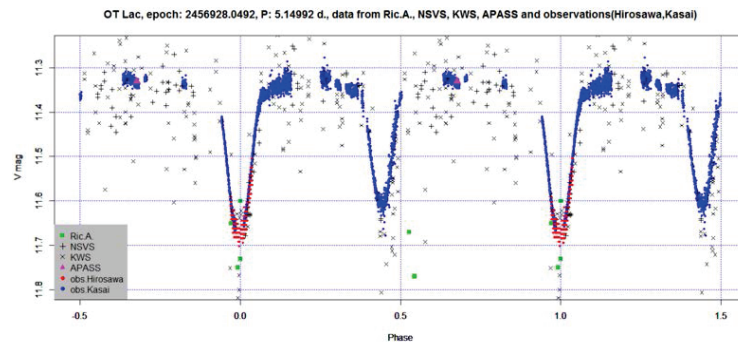


Figure 2: OT Lac light curve

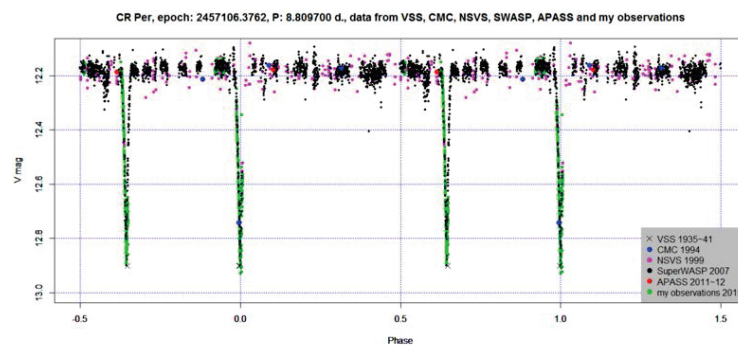


Figure 3: CR Per light curve

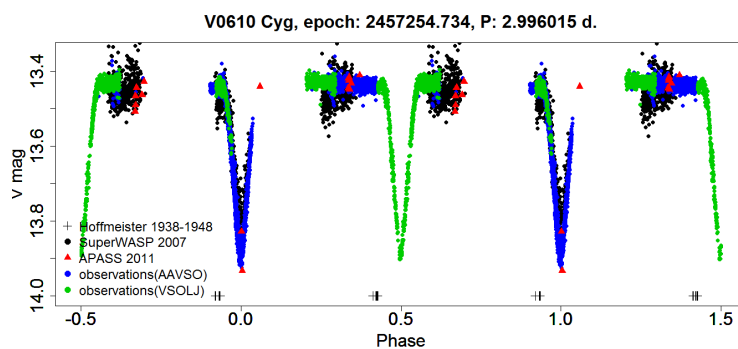


Figure 4: V610 Cyg light curve

Reference:

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Kasai, K., 2015, AAVSO Newsletter, 66, 16
Stellingwerf, 1978, ApJ, 224, 953S

Online materials:

ASAS-3: <http://www.astrouw.edu.pl/asas/?page=aasc>
CMC: <http://svo2.cab.inta-csic.es/vocats/cmc15/>
NSVS: <http://skydot.lanl.gov/nsvs/nsvs.php>
SuperWASP: <http://wasp.cerit-sc.cz/form>
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