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## KR Aur - extremely high variations in optical bands

ATel #10141; **S. Boeva, G. Latev, Y. Nikolov, P. Nikolov, G. Nikolov, B. Spassov, B. Petrov, G. Damljanovic, M. Sekulic, R. Zamanov**  
on **3 Mar 2017; 05:20 UT**  
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Since 2008, the cataclysmic variable star KR Aur is in deep minimum state with a short brightening in 2010. We performed photometric monitoring in 12 nights during the period August 2016 - February 2017 with the telescopes of Rozhen (Bulgaria), Belogradchik (Bulgaria) and Vidojevica (Serbia). In the light curves obtained in August, October and November 2016 are visible variations on a time scale of  $\approx 1$  hour with peak-to-peak amplitude 0.3 magnitudes, which is typical for KR Aur in low state. However on November 4, 2016 the amplitude in V band was considerably higher - 1.1 magnitude. On February 22, 2017 the variability was with amplitude 0.2 mag in V band. On February 23, 2017 we obtained average magnitude  $V = 17.14$  ( $\pm 0.02$ ) and an amplitude of about 2.1 magnitudes in UBV bands (see Fig. 1). This is the highest amplitude in our observations of short-term variability of KR Aur. We estimate average colours  $U-B = -1.08$  and  $B-V = -0.12$ . It seems that the mass transfer rate in the system starts to increase and probably the luminosity will rise to high state soon.

[KRAur.20170223.html](#)

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