

Poster paper

PHOTOMETRIC AND SPECTRAL INVESTIGATION OF THE STAR TU UMi

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The paper presents BVRI photometry and high-resolution spectral observations around the H α line of the variable star TU UMi. They were obtained correspondingly by observations with the 60-cm and 2-m telescope of NAO Rozhen in 2012-2013. The simultaneous light curve solution and radial velocity curve allowed us to obtain the global parameters of the target. The obtained results were compared with the previous ones.

Poster paper

SPECTROSCOPICAL INVESTIGATION OF GRAVITATIONALLY LENSED QUASARS

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Here we investigate differences in redshift between images of gravitationally lensed quasars in order to study their possible correspondence to time-delays. For that purpose we selected a sample of multiply-imaged quasars and analyzed spectra of their images. Here we present preliminary results of our investigation, which show that in some cases there are slight differences in redshifts between different images of the same lensed objects.