

NEW MODES OF OBSERVATION AT THE 2-M TELESCOPE OF  
ROZHEN OBSERVATORY: PARAMETERS OF  
THE INSTRUMENTS AND FIRST RESULTS

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**Abstract.** Rozhen is the National astronomical observatory in Bulgaria. The main observing facility in the observatory is the 2-meter telescope. It was commissioned 30 years ago and over the years it was continuously developed and upgraded with new instruments. In this presentation I will report on the developments made in the last several years. With a new camera, used in the red channel of the focal reducer, the FOV is increased to 16 arcmin. A new slit unit, for the low-resolution spectroscopy mode with the focal reducer, allows fast positioning of the objects on the slit and their monitoring during exposures. After changes in the configuration of Wollaston prism and grism, now it is possible to perform spectropolarimetric observations with low spectral resolution. The introduction of a new set of Sloan filters extends the field of possible photometric tasks. The work on the fiber-fed bench-mounted echelle spectrograph is going on with expected start of operation by the mid of 2013.

**Presentation link:** [http://belissima.aob.rs/Conf2012/Bonev\\_2012.pdf](http://belissima.aob.rs/Conf2012/Bonev_2012.pdf)

