

**METHODS OF PROCESSING ASTRONOMICAL  
OBSERVATIONS OBTAINED AT THE OBSERVATORY AT  
TERSKOL PEAK**

***V.K. Taradiy<sup>1</sup>, M.V. Karpov<sup>1</sup>, G.Z. Butenko<sup>1</sup>, V.G. Godunova<sup>1</sup>,  
A.V. Bondar<sup>1</sup>, I.O. Izviekova<sup>1</sup>, M.V. Andreev<sup>1,2</sup>, D.D. Berezin<sup>1</sup>,  
V. A. Kozlov<sup>1</sup>***

<sup>1</sup> *ICAMER, Kiev, Ukraine,*

*izviekova@gmail.com*

<sup>2</sup> *Main astronomical observatory NAS of Ukraine, Kiev, Ukraine*

Positional, photometric, spectral and polarimetric observations of galaxies, planets and their satellites, exoplanets, gamma-ray bursts, interstellar medium, small bodies of the solar system, space debris are carried out at the observation complexes of the Terskol Peak Observatory (Kabardino-Balkaria, Russia, altitude 3150 m above sea level, international code B18) as part of a number of International Programs "Astronomy in Elbrus".

Both standard software (MAXIM DL, ASTROMETRICA, DECH) and original programs (preparation and processing of high-resolution spectra, processing of space debris) are used to process the obtained observations.

The data of positional and astrophysical observations are given in the work and the methods of their processing are demonstrated.