

ASTRONOMICAL DATABASE OF THE NIKOLAEV OBSERVATORY

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Results on creation of the digital database of the Nikolaev Astronomical Observatory (NAO) are shown. The total amount of the own information makes about 90GB, obtained from other sources - about 15GB. The mean diurnal level of receipt of the new astronomical information from the NAO CCD instruments makes, depending on the purposes and conditions of observations from 300MB up to 2GB. The overwhelming majority of observational data is stored in FITS format. Possibility of using of VO-table format for displaying our data in the Internet is studied. Activities on development and the further refinement of storage, exchange and data processing standards are conducted.

Also activities on implantation of new methods of operating automatic processing of the CCD observations on NAO's robotic telescopes for decreasing of period from observations to obtaining final results are shown. At present the NAO local network includes three astronomical complexes where observations are carried out. All obtained astronomical data and results of their processing are included in the general database of the NAO.

TEST OBSERVATIONS OF FAINT OBJECTS PERFORMED WITH BUCHAREST PRIN ASTROGRAPH

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The modernization of Bucharest Prin Astrograph is included in the topic.

Development and applying of optoelectronic techniques of acquisition and image processing in order to improve the accuracy and efficiency of ground-base astronomical observations. The improvement of the efficiency of astronomical observations by using the automatic control of the positioning and data processing with an appropriate software was performed studying and applying techniques of observation by utilizing an acquisition system with CCD camera; development and use of intel-