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ABSTRACT BOOK



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The Database of the NAO as a Unit of an International Virtual 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 90 GB, obtained from other sources – about 15 GB. 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 300 MB up to 2 GB. 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. 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 also 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. On the base of the general astronomical database of the NAO creation of astronomical information resource with a capability of interactive access to databases and telescopes is planned. This resource maybe as one of units of an international virtual observatory. There are prototypes of search engines with usage PHP and MySQL. Activities on the extension of channels bandwidth of NAO access to the Internet are also conducted.