STATE AGENCY ON SCIENCE, INNOVATION
AND INFORMATION OF UKRAINE
RESEARCH INSTITUTE “NIKOLAEV ASTRONOMICAL OBSERVATORY”

ASTRONOMICAL RESEARCH: FROM NEAR-EARTH SPACE TO THE GALAXY

International Conference

ABSTRACT BOOK

September 26-29, 2011,
Mykolaiv, Ukraine

to reprocess successfully the previous observation. At 1 August 2004 Vyacheslav Petrovich Sibilev was died but his collegues keep the memory of a clever astronomer and good man.

DETERMINATION OF POSITION OF OBJECTS WITH ROTATING-DRIFT-SCAN CCD

YU Yong, MAO Yindun, LI Yan, TANG Zhenghong

Shanghai Astronomical Observatory, Shanghai, China

With short exposures of stars under stare mode before and after drift-scan CCD mode, stars in stare mode can be used as reference to determine the position and magnitude of space objects with rotating-drift-scan CCD. The whole procedure of the method is given.

UKRAINIAN VIRTUAL OBSERVATORY IN THE NETWORK OF WORLD VIRTUAL OBSERVATORIES

I.B. Vavilova[1], L.K. Pakuliak[1], Yu.I. Protsyuk[2], A.A. Shlyapnikov[3], V.E. Savanevich[4], N.N. Kondrashova[1]

[1]Main Astronomical Observatory, Kyiv, Ukraine;

[2]RI "Nikolaev Astronomical Observatory", Mykolaiv, Ukraine;

[3]RI "Crimean Astrophysical Observatory", Naukove, Ukraine;

[4]Kharkiv National University of RadioElectronics, Kharkiv, Ukraine

The UkrVO (Ukrainian VO) database consists of about 200,000 astronegatives and 50,000 CCD-frames containing the unique astroinformation for formulation of important scientific tasks. This database is compiled from observations conducted in 1898-2011 years at observational sites of 8 Ukrainian observatories with about 50 instruments.

This paper deals with some principal UkrVO scientific projects, which are currently under development, namely the creation of the Joint Digitized Archive (JDA); compilation of new stellar catalogues; search for the optical GRB's counterparts, spectral study of the solar flares and solar active formations, software for the new Solar System small bodies searching.

Our near-term plan is to join the structure of International Virtual Observatory Aliance (IVOA). Current version of UkrVO site placed on http://ukr-vo.org.

Key words: virtual technologies, virtual observatory, astronomical databases