

THE USE OF MODERN INFORMATION TECHNOLOGY IN THE FON PROJECT

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Received July 20, 1996.

Key words: instrumentation: automatic measuring machine

To ensure the highest possible accuracy and reliability of measurements of FON-plates (Northern Sky Survey Project, positions and proper motions of one million stars of AC list) using the PARSEC automatic measuring machine, an information technology has been developed which is based on the following principles:

- maximum automation of all stages of the measuring procedure;
- minimization of human intervention;
- support of stable and non-stop automated procedures for input data preparation, measurement and output data processing;
- support of efficient interaction between measuring and computing systems, based on the local network and an operator friendly interface;
- use of verification software for checking data reliability throughout all stages of information processing;
- real-time measurement reduction and estimation of measurement quality;
- development of the optimum structure for the measurement data base, input and output data;
- metrological assessment of PARSEC.

A user interface written in the TURBO PASCAL language was developed in order to support input/output operations between PARSEC and PC using the database of FON-plates.

This work is supported by grant No. U4I000 from the International Science Foundation.