

UPGRADE OF THE MULTICHANNEL SPECTROMETER DELTA

Yu.S. Anisimov, Joint Institute for Nuclear Research PPL; S.N. Borodin, Joint Institute for Nuclear Research PPL; V.A. Krasnov, Joint Institute for Nuclear Research PPL; S.N. Kuznetsov, Joint Institute for Nuclear Research PPL; A.I. Malachov, Joint Institute for Nuclear Research PPL; A.S. Nikiforov, Joint Institute for Nuclear Research PPL; O.V. Strekalovsky, Joint Institute for Nuclear Research PPL

This publication presents the software development of the spectrometer DELTA. The spectrometer is essentially upgraded by installation of new modules in VME and FASTBUS standards on the way of the extracted beam of charged particles from the Nuclotron. The modules will take large dataflow from the incoming three hundreds of data registration channels. The spectrometer includes two processor modules VME FIC-8234, specialized ADC and TDC modules in FASTBUS standard, two personal computers of IBM PC type, CAMAC modules and a local network. The software package for the data acquisition system based on the VME FIC-8234 processor modules was designed. The software is a flexible program package easily adjustable for a necessary number of analog and time channels. In addition to that VME processor modules make on-line data analysis and transfer the results via local network for further visualization on a personal computer IBM PC.