

**A Complex TV-System for Monitoring the Beam Parameters and Accelerator Equipment Room Observing at Kurchatov Synchrotron Radiation Source, L.I. IOUDIN, V.A. REZVOV, KSRS RRC KI -**

A project of a uniform TV-system for monitoring the beam parameters in synchrotron radiation beamlines and observing the accelerator equipment rooms at Kurchatov Synchrotron Radiation Source was designed. Visualization of beams cross-section in 17 beam lines is planned. Two interrupting luminescent detectors and two non-interrupting ionization detectors are provided. Every pair of detectors is located in the beginning and in the end of the every beamline. Non-interrupting detectors will be constructed on the basis of ionization detectors of the real beam cross-section. Those detectors were tested successfully before with charged particles beams at different accelerators. A model of the ionization detector for the registration of the X-ray beam cross-section is described. Computer data processing of beam cross section images, their storage, monitoring and comparison of pictures and the beam parameters are provided. TV-commutators quadrators, movement detectors permit to decrease the routine process of equipment rooms observing.