

THE OPERATORS' CONSOLES FOR KEKB ACCELERATORS

A. Akiyama, Kek; T. Katoh, Kek; K. Kudo, Kek; T.T. Nakamura, Kek; J-I. Odagiri, Kek;
N. Yamamoto, Kek

The operators' consoles of KEKB accelerators will be described in comparison with the old TRISTAN accelerator control consoles. The construction policy of the KEKB operators' console is the flexibility. For TRISTAN, there were several sets of identical console desk made of iron frames in which two touch-panels, two graphic display monitors, and ten TV monitors are packed. Each set of console was directly controlled by a mini-computer in the TRISTAN control network. On the contrary, in the KEKB control system, all the man-machine interface devices are based on X-window system and application software runs on a UNIX server workstation. Therefore, the number of X-window devices such as X-terminals, Macintosh with X-server software and PC/AT compatible PCs with X-server software is limited only by the capacity of the UNIX server and the space. Low-cost Network Stations[1] are introduced as X-terminals. A Macintosh or a PC can have multi-screen up to four and works as multiple X-terminals with only a set of a mouse and a keyboard. For the space and ergonomic reasons, we adopted TFT flat-panel displays, which are very thin and light, and they reduce reflection of lights. For the same reason, cordless keyboard/mouse are also introduced.

[1] Products of IBM Corp.