

COD Measurement and Correction System in HIMAC Synchrotron, N. ARAKI, M. KANAZAWA, M. KUMADA, K. NODA, S. SATO, E. TAKADA, NIRS, A. ITANO, Hyogo Pref. Gov., K. SATO, RCNP, M. KATANE, J. SAGAWA, HITACHI, T. MIYAOKA, E. TOYODA, and T. YAGI, TOSHIBA - COD measurement and correction system has been made in the HIMAC synchrotron. We have used electro-static pick-up monitors for horizontal and vertical COD measurement, which have triangular electrodes. There are twelve horizontal monitors and eleven vertical ones, and each electrode have been attached with first and second amplifiers. There is one signal processor, and the amplified signals from each monitors are selected with diode switches. In the signal processor, wide frequency of beam signal between 1 and 8 MHz is converted to constant frequency of 0.455 MHz to reduce FET noise with band pass filter. To monitor the beam signal of wide amplitude, the electronics gain can be selected from 0 to 100 dB with 10 dB step. In this article the system description will be presented mainly.