

**Evaluation of Ripple of the Power Supply to a Beam Spill during Third Order Resonant Extraction in the HIMAC,** N. ARAKI, M. KUMADA, M. KANAZAWA, K. NODA, S. SATO, E. TAKADA, NIRS; A. ITANO, Hyogo Pref. Gov.; S. MATUMOTO, Dokkyo Med. UNiv; K. SATO, RCNP; T. AOKI, AEC - Ripples in the HIMAC synchrotron power supply are below ppm level both for the Focusing magnet power supply and the Bending magnet power supply. With this low ripple content, one is able to identify a qualitative relation between the ripple content of the power supply of the Quadrupole magnet and the Bending magnet power supply. This article describes their relation by using a Ripple Basher, which is a device of adding external sinusoidal pseudorippled harmonics phase-locked to AC three phase voltage into the power supply.