

**The Effect of the Superconducting Wiggler on the Dynamic Aperture ISI-800, P. GLADKIKH, I. KARNAUKHOV, A. MYTSYKOV, KFTI, Kharkov, Ukraine** - The superconducting wiggler for the synchrotron light source ISI-800 of the Ukrainian National Synchrotron Radiation Center is under development at KIPT. The physical model considering the effect of higher terms of the wiggler field on the ring focusing is suggested. The dynamic aperture of the storage ring is defined by computer simulations.