

**The Commissioning Results of the 1 m Long EPU5.6 in SRRC**, C.H. CHANG, H.P. CHANG, J.R. CHEN, G.Y. HSIUNG, K.T. HSU, C.S. HWANG, C.C. KUO, G.H. LUO, P.K. PAN, CH. WANG, D.J. WANG, SRRC - There is a "Sasaki" type undulator EPU5.6 will be installed in the SRRC storage ring. We will be very careful to align the EUP to the on-axis of the electron trajectory when install the prototype undulator because there is a narrow region of the field uniformity in the "Sasaki" type undulator. It is a variable polarized undulator such that it can produce the polarization light in the horizontal, vertical, right/left elliptical, and the linear at 450/1350 by means of changing the different phase modes. Therefore, the electron and photon beam performances will be tested. We try to test the beam dynamics behavior when perform the EPU5.6 on the different phasing operation modes. The deviation of the photon beam position and angle will be measured by the Photon Beam Position Monitor (PBPM) when operated in the various polarized radiation modes. There are the magnetic field measurement results were used to compare with the electron and photon beam behavior. Finally, we will try to test the electron and photon beam behavior under the global feedback turn on/off status.