

Commissioning of the BESSY II Booster Synchrotron, M. ABO-BAKR, W. ANDERS, R. BAKKER, T. BIRKE, K. BUERKMANN, V. DUERR, W. GERICKE, M.V. HARTROTT, E. JAESCHKE, D. KRAEMER, B. KUSKE, P. KUSKE, M. MARTIN, R. MUELLER, K. OTT, J. RAHN, T. SCHNEEGANS, G. WUESTEFELD and E. WEIHRETER, BESSY - The injection system for the third generation synchrotron light source BESSY II consists of a 50 MeV microtron and a rapid cycling, full energy, low emittance synchrotron, to ensure a short filling time. Commissioning results including beam optical measurements at injection energy and during acceleration are reported to characterize the performance and the main parameters of the synchrotron.