

**Final-focus Superconducting Magnet System for KEKB Interaction Region,** T. OGITSU, N. OHUCHI, T. OZAKI, N. TOGE, K. TSUCHIYA, KEK - An asymmetric two-ring electron-positron collider for B-physics, KEKB, is now under construction. For the interaction region, four superconducting magnets were constructed: solenoid field compensation magnets (S-R and S-L), and final focusing quadrupole magnets (QCS-L and QCS-R). The quadrupoles are iron-free magnets with an inner coil diameter of 260 mm and a nominal field gradient of 21.26 T/m. The effective lengths of these magnets are 483 and 385 mm, respectively. Inside the quadrupole coil, three kinds of correctors (horizontal and vertical steering, and skew quadrupole) are embedded. The S-R and S-L produce a solenoidal field of 5.6 T and 4.4 T, respectively. The QCS and S magnets on each side of the interaction point are contained in a common horizontal cryostat and are cooled by single-phase liquid helium of 4.6 K and 0.16 MPa. The magnet system was installed and the commissioning test has been successfully completed. This paper describes the construction and the test results of these magnets, cryostats, and the helium cooling system.