

Commissioning of the PEP-II High Power RF Systems*, R.A. RIMMER, LBNL; M. ALLEN, P. CORREDOURA, A. HILL, M. HOYT, J. JUDKINS, M. NEUBAUER, H. SCHWARZ, R. TIGHE, SLAC - We describe the commissioning of the high-power RF stations for the PEP-II B factory. This includes in-situ testing and conditioning of components after installation, phasing of cavities within each station and between stations in each ring, capture of first beam, stored-beam operation at low- and moderate-current, commissioning of feedback loops, and high-current operation. Performance of the overall system and of critical components such as klystrons, cavities, windows, tuners and the HOM suppression scheme is reported. Observation of beam motion and signals in the cavity and HOM loads suggest that the HOM impedance reduction necessary for high-current operation has been achieved.

* This work was supported by the U.S. Department of Energy under contracts DE-AC03-76SF00098 (LBNL), DE-AC03-76SF00515 (SLAC).