Measurement of Beta and Dispersion Functions in the PLS Storage  $Ring^{\ast},\,\underline{\text{M. YOON}},\,\text{H.K. JEONG}$  and T. LEE, Pohang Accelerator Laboratory, Pohang University of Science and Technology, Korea - During commissioning of the PLS storage ring, beta and dispersion functions were measured in the PLS storage ring. Two methods were used to measure beta a quadrupole tweaking method and a functions; sensitivity matrix method. Results are compared with the designed beta functions and shown to be well in agreement. Using sensitivity matrix method has a byproduct so that fractional part of the betatron tune can be obtained. Dispersion functions are obtained by measuring the orbit change with RF frequencies. It is shown that the measured dispersion functions agree with the design values and spurious rms vertical dispersions are less than 1 cm.

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