

**Measurement of the Optical Parameters of a Transfer Line Using Multi-Profile Analysis,**  
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M. MARTINI, CERN - The standard approach to measure the optical parameters and the emittance in a transfer line is based on the analysis of the profiles measured by three monitors. This is feasible, provided the dispersion function is known a priori. In this paper we propose to measure the complete set of five parameters (the two independent Twiss parameters, the emittance, the dispersion function and its derivative) by using five monitors with one bending magnet interleaved. Furthermore, the results of measurements carried out in the transfer line connecting the CERN PS and SPS rings are presented.