

A Fast Global Feedback System to correct the Beam Position Deviation in the ESRF Storage Ring, J.M. KOCH, E. PLOUVIEZ, F. UBERTO, ESRF - We have installed a fast global orbit correction system in order to reduce in the vertical plane the fast distortions of the closed orbit due to the mechanical vibration of the girders supporting the magnets of the storage ring of the ESRF. The main parameters of this system are: -bandwidth of the correction: 10-2 to 200 Hz - number of BPMs and correctors :16. The correction is based on the SVD analysis of the machine response to individual correctors. The fast corrections are computed by a floating point DSP connected to the BPMs and correctors with a fast digital data link. We present the implementation of the system (BPMs RF and digital electronics). We present datas on the efficiency of the orbit correction measured after the commissioning of the system.