

Dynamic Aperture, Comparison of Measurements on ELETTRA with Simulations, C.J. BOCCHETTA, A. FABRIS, F. IAZZOURENE, E. KARANTZOULIS, R. NAGAOKA, M. SVANDRLIK, L. TOSI, R.P. WALKER, A. WRULICH, Sincrotrone Trieste -

Limitations in dynamic aperture have always been a major concern for third generation light sources. The presence of strong chromaticity correcting sextupoles and the extensive use of insertion devices introduce highly non-linear fields which may affect the maximum stable amplitudes, reducing thus the performances of the storage ring. In this paper, the results of dynamic aperture measurements on Elettra are presented and compared with simulations.