

**Performances of the SOLEIL Lattice in the Presence Of Errors\***, P. BRUNELLE, LURE (France); A. NADJI, SOLEIL (France) - The SOLEIL storage ring lattice has been designed in order to obtain large dynamic aperture and energy acceptance. The aim of this work is to investigate the effect of various errors on these performances. First of all, the effect of the residual closed orbit and focusing errors on the optics and dynamic aperture has been evaluated. Then, multipolar components, deduced from magnet design computation, have been introduced in the lattice and special attention was paid to the components added by the presence of dipolar correctors in sextupoles.

\* Work supported by CNRS, CEA and MESR