

**Magnet System Design for the Storage Ring of the LSB, M. PONT**, Laboratori del Sincrotró de Barcelona, Bellaterra, Spain - The Storage Ring of the LSB has a TBA based magnetic lattice with 12 sections. The dipole magnet will be of the combined function type. At 2.5 GeV the magnetic field at the central point is 1.0 T and the magnetic gradient 3.4 T/m. There are 36 of these combined magnets. A good magnetic field region with  $\Delta B/B_0 \leq 2 \cdot 10^{-4}$  in a region of  $40 \times 35$  mm has been obtained. There will be 72 quadrupoles with three families. The maximum magnetic gradient is 14.2 T/m. The quadrupoles have an aperture diameter of 70 mm and due to space requirements most of them will have to be split. The sextupoles, with a maximum second order differential of  $557 \text{ T/m}^2$ , will have an aperture diameter of 84 mm. Corrector magnets will be installed in the sextupoles.