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## Storage Ring Magnets Design for ILSF

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### Abstract

Iranian Light Source Facility (ILSF) is a new 3 GeV synchrotron radiation laboratory in the Middle East. The ILSF storage ring (SR) is based on a Five-Bend Achromat lattice, providing a beam emittance of 0.48 nm rad. The ring is consisting of 100 pure dipole, 320 quadrupole and 320 sextupole magnets. In this paper, we present some design features of the SR magnets and discuss their detailed physical design.

**Keywords:** storage ring, electromagnet, magnetic field quality, electrical and cooling system

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For full article, refer to the Persian section