

Preface

This report summarizes the progress of SPring-8 Project in 1995. Construction of SPring-8 has made a remarkable progress in this period, and installations of the injector linac, the booster synchrotron and the storage ring are going well on schedule. The linac was already completed and aging test of RF system will start in April. Installation and precise alignment of synchrotron magnets will finish in April and installation of vacuum chambers and pulse magnets for beam injection and extraction for the synchrotron will start successively. Installation of magnets and vacuum chambers of the storage ring is going on smoothly, too. The low emittance storage ring requires very precise alignment of focusing magnets. Clean and high vacuum is also needed to realize a long life time of the beam in the storage ring. In the case of SPring-8 magnetic centers of all the focusing magnets are aligned on the framed girders with a precision of $50\mu\text{m}$, and vacuum of an order of 10^{-8} Pa is achieved for the vacuum chambers.

In this fiscal year we succeeded to get a supplementary budget to finish the construction of accelerators and ten public beamlines by the end of 1997. In addition, budgets for guest houses of 240 rooms, buildings for biomedical studies and clinical application of SPring-8, and a building for beamline installation was approved, and their construction started recently.

Construction of the public beamlines and six JAERI/RIKEN beamlines started in 1995. Ten insertion devices and most of beamline components were ordered to manufacturers. Experimental stations at the end of beamlines are being constructed in collaboration with users. The first in-vacuum undulator was delivered in the SPring-8 campus and the magnetic field distribution was measured.

We are now sure that commissioning of the injector linac will start in August and the booster synchrotron will be ready for commissioning in October 1996. Then the commissioning of the storage ring is expected to start in February 1997.



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