



Central Japan Synchrotron Radiation Research Facility Project



Nagoya University Synchrotron Radiation Research Center

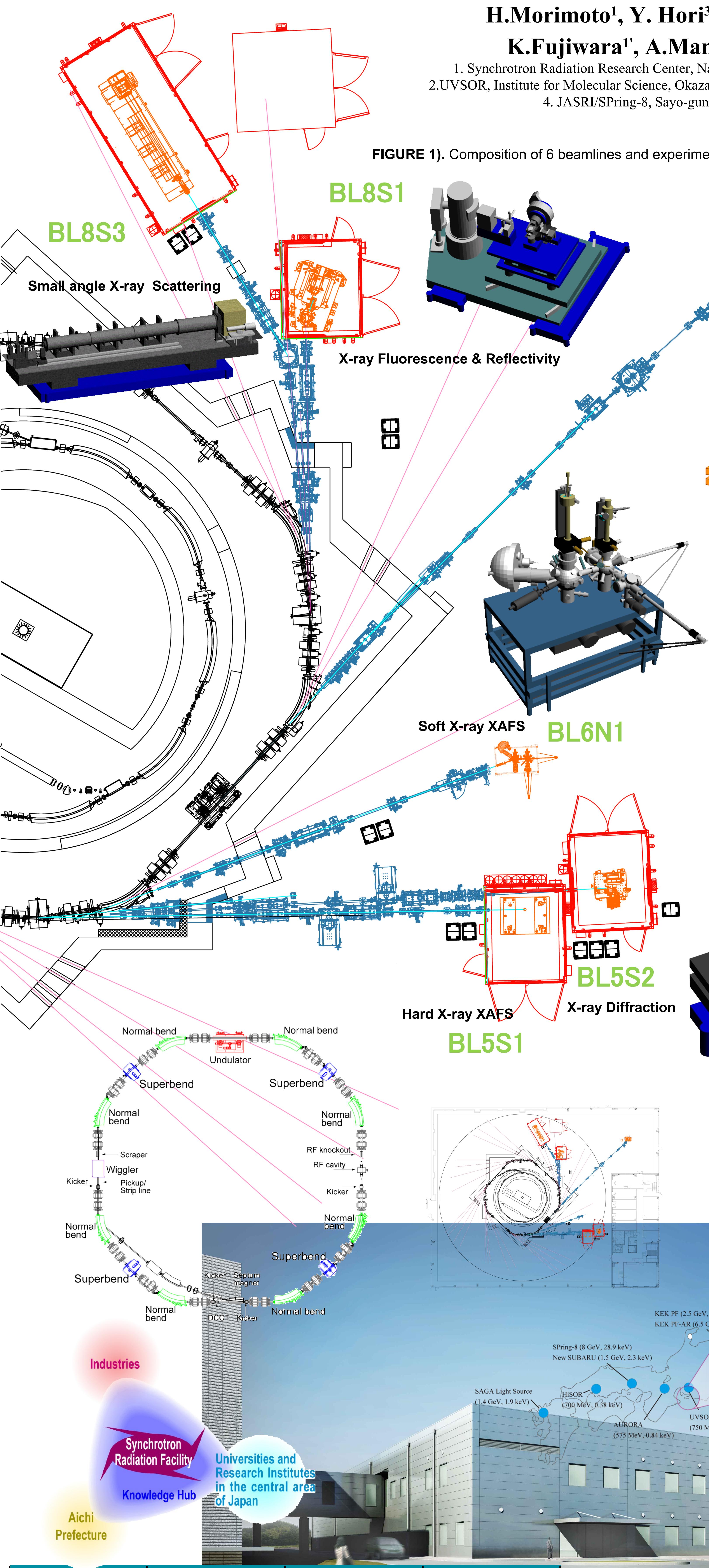


FIGURE 1). Composition of 6 beamlines and experimental equipments

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Summary

Nagoya University has proposed a project of a new small synchrotron radiation facility for hard X-rays since 1991. The project is now developed to "Central Japan Synchrotron Radiation Research Facility" as the principal facility of the project of Aichi prefecture "Knowledge Hub" to establish a new research center for technological innovation. The key equipment of the facility is a compact electron storage ring which can supply hard X-rays. The specifications of the project are as follows. the energy of the stored electron beam is 1.2 GeV, the circumference 62.4 m, and natural emittance 53 nm-rad. The top-up operation can be used in several years. Now, six Beamlines are under construction in the first phase. Those are Beamlines for a hard X-ray XAFS, a soft X-ray XAFS, a soft X-ray to ultraviolet spectroscopy, a small angle scattering, X-ray diffraction, and an X-ray fluorescence analysis. The service will start from the end of 2012.

