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The SRRC Taiwan Light Source and Scientific Research Programs

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The SRRC 1.3 GeV synchrotron radiation research facility has been operating for one and a half years since its dedication in October 1993. The storage ring is a low emittance, high brightness light source with photon energy ranging from vacuum ultraviolet to soft x-ray. The facility has been opened to the public users to conduct synchrotron radiation experiments starting from April 1994. The overall machine performance of the first year operation as well as its scientific research programs will be presented. Presently, there are three high resolution photon beamlines in use which are dedicated to VUV experiments. In February 27, 1995, SRRC also announced the successful commissioning of its 1.8 Tesla high field wiggler magnet system which is another outstanding accomplishment of the third generation ring. Another three x-ray beamline will be operating in summer 1995. A PESM (photomission spectromicroscopy) beamline, which will be set up at the SRRC-U5 undulator, providing photon energies from 90-400 eV in the first harmonics, is presently under plan.