Current Status of the Synchrotron Radiation Center


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The Synchrotron Radiation Center (SRC) operates the Aladdin storage ring at 800 MeV and 1 GeV electron energies in support of a broad range of national and international research programs with a major focus on the study of valence electrons, spectromicroscopy, and nanolithography. Upgrades to the storage ring have improved the stability of the source, and experiments with low emittance lattice configurations show the feasibility of increased brightness for new or enhanced research programs in lithography, solid state physics, and microscopy. Three recently installed undulators, two pure permanent magnet devices and an electromagnetic device, and the associated instrumentation are offering experimentalists high flux combined with high resolution. The status of the existing instrumentation and an overview of plans for new undulator based instruments to cover the photon energy range from 7.8 to 400 eV will be presented as well as interesting scientific results.

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