

Structural biology at the National Synchrotron Light Source II

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The structural biology program at the National Synchrotron Light Source II presents a coordinated set of instruments, software and research opportunities for the interested user. We describe in some detail the research capabilities enabled by the Center for BioMolecular Structure. The evolution of the resources is described in detail, considering three major themes: automation, micro-focusing and computation prediction.

1. Introduction

Structural biology stands at an exciting point in its history. The new generations of light sources provide exquisitely bright, high-flux beamlines that open new research directions for structural biology. Cryogenic electron microscopy has advanced to such a degree that it is an essential part of the tool kit for structural biology. An important new tool is the capability of protein structure modeling through the use of artificial intelligence/machine learning (AI/ML). At Brookhaven National Laboratory (BNL) we are embracing the opportunity presented by the synergy of electron and X-ray techniques. We have established an electron cryo-microscopy capability to work in partnership with the efforts described here using the National Synchrotron Light Source II (NSLS-II). With support from both the National Institutes of Health (NIH) and the Department of Energy, through the National Institute of General Medical Sciences (NIGMS) and Biological and Environmental Research program, support for structural biology is coordinated under the auspices of the Center for BioMolecular Structure (CBMS) (<https://www.bnl.gov/nsls2/lifesciences>).

The first light was observed at NSLS-II, a little over a decade ago in October of 2014. Construction of the structural biology beamlines that form the basis of this report was underway at that time, with the first four instruments delivering photons between October 2016 and April 2018. The macromolecular crystallography (MX) beamlines at 17-ID-1 and 17-ID-2 (Highly Automated MX; and Frontier MX, AMX and FMX, respectively) have enabled routine, automated microfocused X-ray crystallography (Fuchs *et al.*, 2016; Schneider *et al.*, 2022). Automated diffraction data collection (for crystals $>20\ \mu\text{m}$) and use of X-ray focused beams (routinely $<2\ \mu\text{m}$ \times $2\ \mu\text{m}$) were made available. We have created a multipurpose X-ray scattering facility for life sciences at 16-ID: the beamline that provides small-angle protein solution scattering (both automated static scattering



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Compact Synchrotron Light Sources

Ernst Wehreter



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Compact Synchrotron Light Sources Ernst Weihreter, 1996 This book covers a new niche in circular accelerator design motivated by the promising industrial prospects of recent micromanufacturing methods X ray lithography synchrotron radiation based micromachining and microanalysis techniques It describes the basic concepts and the essential challenges for the development of compact synchrotron radiation sources from an accelerator designer s point of view and gives an outline of the actual state of the art The volume is intended as an introduction and as a reference for physicists engineers and managers involved in this rapidly developing field

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Portable Synchrotron Light Sources and Advanced Applications Hironari Yamada, Noriko Mochizuku-Oda, Makoto Sasaki, 2004-09-02 Synchrotron radiation has led to many innovations in material and life sciences The construction of huge facilities such as SPring 8 was a trend in the 20th century Recently big efforts have been made to downsize the light source It is expected that powerful portable X ray sources will change the paradigm of the X ray business and open up completely new research fields that were impossible before

Design of a Fast Electron Beam Scanning System for Compact Synchrotron Light Sources H. O. Moser, Heinz Lehr, 1988 **Energy Research Abstracts**, 1988 **Vacuum Design of Synchrotron Light Sources** Yeldez G. Amer, 1991 **Physics And Engineering Of High-performance Electron Storage Rings And Application Of Superconducting Technology, Proceedings Of The Asian Accelerator School** Zhiyuan Guo, Yoko Hayashi, Kenji Hosoyama, Rucheng Hou, Shin-ichi Kurokawa, Chuang Zhang, 2002-02-27 The first Asian Accelerator School AAS was organised to show the rapid development of accelerator sciences based on electron storage rings in Asia At present seven electron positron colliders are operational in the world and two of them are located in Asia KEKB the KEK B Factory at KEK in Japan and BEPC at IHEP in China It is also notable that one third of the operating synchrotron light sources are Asian machines To further improve the performance of electron storage rings the use of superconducting magnets and cavities is of vital importance therefore the curriculum of AAS was arranged not only to teach the basic physics of storage rings but also to give students a basic knowledge of superconducting technology EPAC 92 H. Henke, H. Homeyer, 1992 **Engineering Superconductivity** Peter J. Lee, 2001-05-02 Comprehensive coverage of superconductivity from the Wiley Encyclopedia of Electrical and Electronics Engineering Engineering Superconductivity features fifty articles selected from the Wiley Encyclopedia of Electrical and Electronics Engineering the one truly indispensable reference for electrical engineers Superconductor technology has made highly advanced experiments possible in chemistry biochemistry particle physics and health sciences and introduced new applications currently in use in fields from medicine to cellular communications Taken

together these articles written by acknowledged experts in the field provide the most complete and in depth accounting of superconductivity in existence The book brings together a wealth of information that would not be available to those who do not have access to the full 24 volume encyclopedia This thorough survey looks at the application of superconductors from an engineer s practical perspective rather than a theoretical approach Engineering Superconductivity provides full coverage of the fundamentals of superconducting behavior and explains the properties and fabrication methods of commercially produced superconductors Up to date material on superconductor applications as well as competing technologies is included The fifty articles presented here are divided into three sections Superconductivity and magnetism Superconductors Applications and related technology Engineering Superconductivity is a complete and up to date reference for engineers physicists chemists materials scientists and anyone working with superconductors High Energy Physics Index ,1992

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