

W0516

Protein Crystallography in the 21st Century. S. Michael Soltis and the PX Group, Protein Crystallography Group, SSRL, Menlo Park, CA.

The macromolecular crystallography beam lines at SSRL have evolved into efficient and productive X-ray diffraction data acquisition and processing facilities for determining macromolecular structures. The traditionally heroic synchrotron experiment is now a technically robust and automated research tool for the biomedical research community. With the development of remote access tools, the facilities can be successfully utilized by scientists around the world. Enabling developments in instrument control, automation and remote access tools for streamlined experimental design and execution including the interface with the home laboratory will be presented.