

W0354

Remote Access Program at SER-CAT. John Chrzas, James Fait, Stephen Foundling, John Gonczy, Marie Graham, Andrew Howard* Zhongmin Jin, B.C. Wang, SER-CAT, Dept. of Biochemistry and Molecular Biology, Univ. of Georgia, Athens, GA 30602, Advanced Photon Source, Argonne National Laboratory, Argonne, IL 60439, *Dept. of Biological, Chemical, and Physical Sciences, Illinois Inst. of Technology, Chicago IL, 60616.

The South East Region Collaborative Access Team (SER-CAT) operates an undulator and a bending magnet beamline at the Advanced Photon Source (APS) at Argonne National Lab. One of the primary objectives for SER-CAT was the implementation of a reliable remote access capability to provide its membership with a virtual synchrotron in their home labs. The program must provide secure access into the APS/ANL computing environment, as well as the automation of all beamline capabilities, data collection, and data processing. A Linux cluster will be used to provide the capability for users to determine, refine, and deposit their structures on site using a number of different pipelines and programs developed by members of the Southeast Collaboratory for Structural Genomics at the University of Georgia.