

Research Themes of Priority Strategy Proposals for SACLA Public Beamlines

○ The Priority Strategy Proposals are categorized into two groups :

- 1 . Hierarchical Structure Dynamics of Biomolecules
- 2 . Pico/Femto Second Dynamic Imaging

○ Specific research themes for each group :

1 . Hierarchical Structure Dynamics of Biomolecules	1-1	Structural Analysis of Drugtargeted Membrane Protein Nanocrystals
	1-2	Imaging of Whole Cell and Its Components in the Living State
	1-3	Single Molecule Structural Analysis of Supramolecular Complex
	1-4	Dynamics Research Combining Single Molecule X-ray Diffraction Experiments and Supercomputer Analysis
	1-5	Dynamic Structural Analysis Using Pump-Probe Techniques
2 . Pico/Femto Second Dynamic Imaging	2-1	Gas-Phase/Liquid-Phase/Solid-Phase Reaction Dynamics
	2-2	Ultrafast Interface Reaction Processes
	2-3	Charge Generation/Charge Transfer Dynamics
	2-4	Ultrafast Processes under Extreme Conditions
	2-5	Dynamic X-ray Spectroscopy

○ The Priority Strategy Proposal Program is of extreme importance to the SACLA; therefore, its users, RIKEN (installer of the SACLA), and the JASRI (registered institution in charge of user support services) should work in unison to ensure successful implementation of the program.